Calleman 3/13/96 Charado 5-17-96 5N5443

MAY 3 1 1996

In Reply Refer To: MS 5232

Tennessee Gas Pipeline Company Attention: Mr. William M. Murray Sugar Mill Point 1115 Regal Row Houma, Louisiana 70360

Gentlemen:

Your letter dated March 12, 1996, requests approval to permanently abandon in place approximately 8,773 feet (1.66 miles) of 10-inch pipeline designated as Segment No. 5443, and to relinquish in its entirety, Right-of-Way Grant OCS-G 4040 associated therewith. The subject pipeline was used to transport gas from Platform B in Block A-336 to Platform A in Block A-343, High Island Area.

Pursuant to 30 CFR 250.4(b), approval is hereby granted to abandon the above described pipeline, and in accordance with 30 CFR 250.159(c), the requirement that the pipeline be removed is hereby waived. However, in the future, should it be determined that this abandoned pipeline constitutes a hazard to navigation or commercial fishing operations or unduly interferes with the other uses of the Outer Continental Shelf, Tennessee Gas Pipeline Company shall be required to remove it.

Pursuant to 30 CFR 250.150(b), the relinquishment of the right-of-way grant associated with the pipeline that is to be abandoned in place is hereby accepted effective March 15, 1996.

Sincerely,

(Orig. Sgd.) Kent E. Stauffer.

Donald C. Howard Regional Supervisor Field Operations

bcc: 1502-01 (P/L OCS-G 4040) w/enclosures (K.Faust) (MS 5232) 1502-01 (P/L OCS-G 4040) (microfilm) (MS 5033)

MS 5421 MS 5232 Carto

WWilliamson:amm:4/9/96:Tennesse.443

54040

Mortil3

97 ml 6/6/9/8

Tennessee Gas Pipeline Teńneco Energy Sugar Mill Point 1115 Regal Row Houma, Louisiana 70360 Tel 504 868 6785 Fax 504 868 1423

March 12, 1996



U.S. Department of the Interior Minerals Management Service Gulf of Mexico OCS Region 1201 Elmwood Park Boulevard New Orleans, LA 70123-2394 Attention: Warren Williamson

> Re: Permanent Abandonment and Relinguishment of Pipeline Right of Way, OCS-G 4040, Seg. No. 5443, High Island Block A-336-B Line

Dear Warren:

In accordance with Title 30 CFR Part 250, Subpart J, 250.156 and 250.164, Tennessee Gas Pipeline Company hereby requests approval to permanently abandon and relinquish approximately 1.66 miles of ten inch (10") pipeline in the High Island Area. Offshore Texas

The temporary cessation of the above pipeline was approved on April 10, 1995. Tennessee Gas Pipeline Company hereby requests approval to relinquish the pipeline right of way associated with this abandonment. TGP is requesting this permanent abandonment and relinquishment based on the fact that there is no future use for this pipeline. This line has been abandoned as proposed since April 1995.

If you should require any additional information regarding this matter, please call this office.

Sincerely,

J. Chaney, Supervisor Rights

of Way as Agent and Attorney-in-Fact

KJC:kic

cc: M. Taylor

L. Rosales

P. Craft

File

P. Alexis

Both capped or jetter of 3/17/95.

13th 3-21-95 5N5443 TAPR 1 0 1995 In Reply Refer To: MS 5232 Tennessee Gas Pipeline Company Attention: Mr. B. J.Chaney Sugar Mill Point 1115 Regal Row Houma, Louisiana 70360 Gentlemen: Pursuant to the authority granted by 30 CFR 250.150(b), your request dated March 17, 1995, for modification of pipeline Right-of-Way OCS-G 4040 to allow for the temporary cessation of operation of pipeline Segment No. 5443 is hereby approved, subject to the following conditions: 1. The annual rental required by 30 CFR 250.159(c)(2) shall continue to be due and payable in December of each calendar year. 2. Tennessee Gas Pipeline Company shall, upon receipt of the necessary documentations which are required by the Federal Energy Regulatory Commission under Tennessee Gas Pipeline Company's blanket abandonment authorization, file an application to permanently abandon the subject pipeline and relinquish the right-of-way grant.

Sincerely,

(Orig. Sgd.) Kent E. Stauffer

Donald C. Howard Regional Supervisor Field Operations

bcc: 1502-01 (P/L OCS-G 4040) w/orig application (MS 5232) 1502-01 (P/L OCS-G 4040) w/cy of application (MS 5033) MS 5232 Carto w/cy of location plat

FPatton:amm:3/21/95:Tennesse.443

Photo

on this

Tennessee Gas Pipeline

A Tenneco Company

Sugar Mill Point 1115 Regal Row Houma, Louisiana 70360 (504) 868-6785



March 17, 1995

U.S. Department of the Interior Minerals Management Service Gulf of Mexico OCS Region 1201 Elmwood Park Boulevard New Orleans, LA 70123-2394

Attention: Mike Conner



Re: Temporary abandonment of 8" natural gas pipeline, High Island Block A-336B Line, OCS-G 4040, Segment No. 5443

Dear Mike:

In accordance with Title 30 CFR Part 250, Subpart J, 250.156, Tennessee Gas Pipeline Company hereby requests approval to temporarily abandon the above referenced pipeline in the High Island Area, Gulf of Mexico, Offshore Texas.

This pipeline extended from Tenneco Oil Company's High Island Block A-336-B platform to H.I.O.S.'s High Island Block A-343-A platform. The procedure which was used to abandon this facility is attachd hereto.

Upon receipt of the necessary documentation, i.e., P & A reports, etc., which are required by FERC under TGP's blanket abandonment authorization, TGP will file to permanently abandon the above pipeline.

The line was purged with seawater to remove any materials which may have been harmful to the environment prior to abandonment.

Also, enclosed are three copies of Drawings which have been red-marked to show the completed work.

Page 2 March 17, 1995

If you should require any additional information regarding this matter, please call this office.

Sincerely,

B. J. Chaney, Supervisor Rights of Way as Agent and Attorney-in-Fact

BJC/KJC:kjc

Enclosures

cc: Marty Taylor

O. O. Jones

L. Rosales

G. Benoit

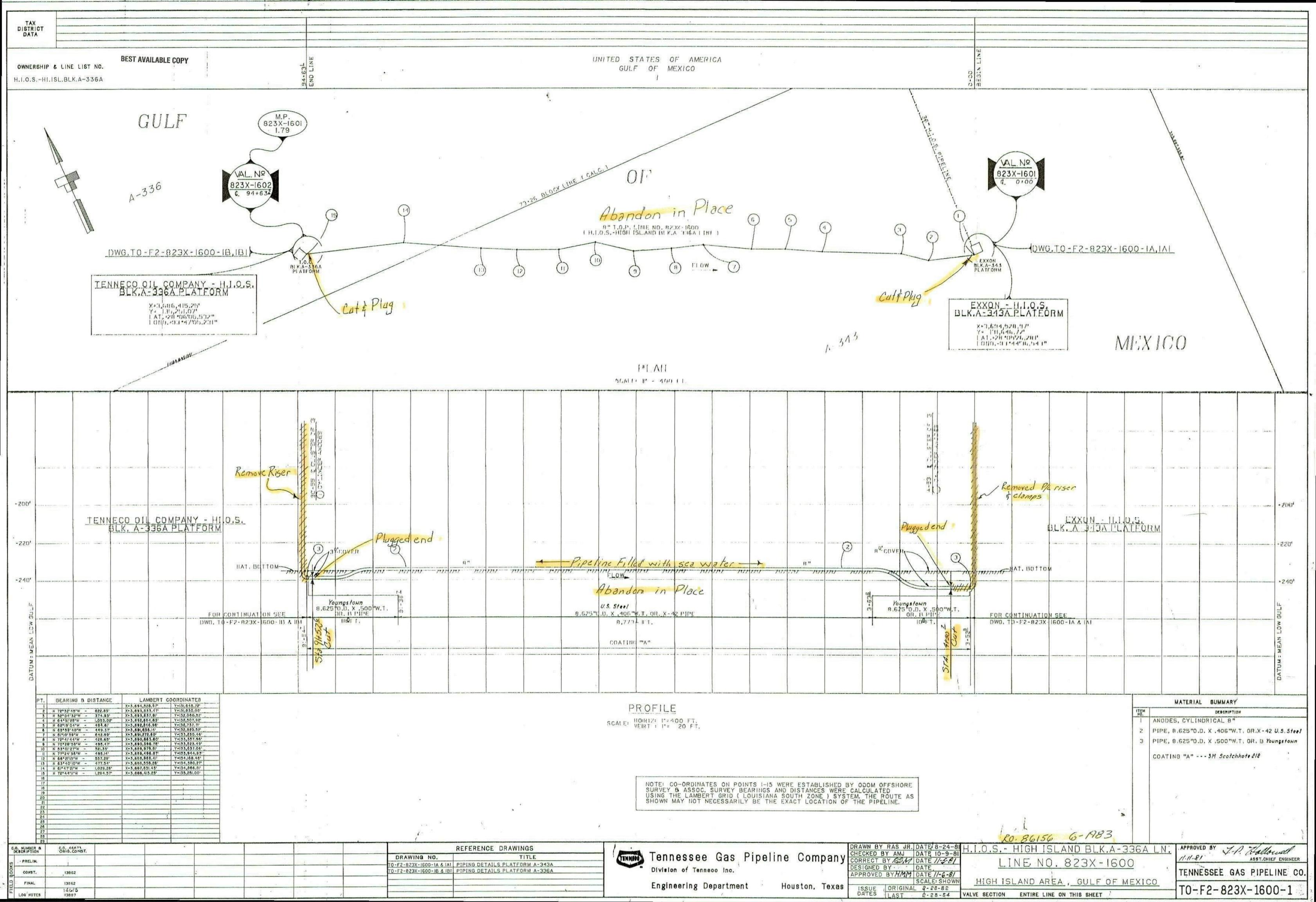
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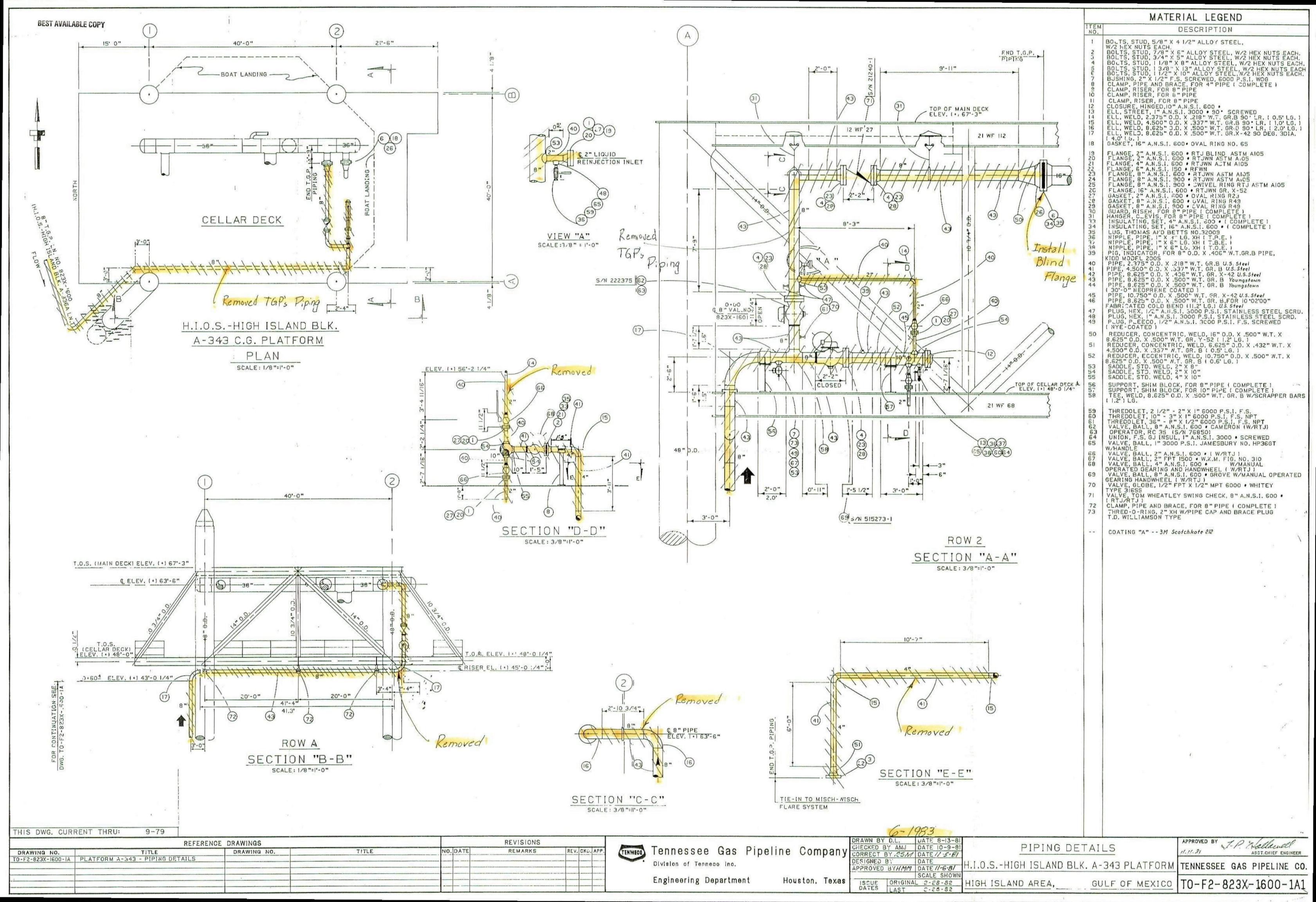
3-10-95 pjc

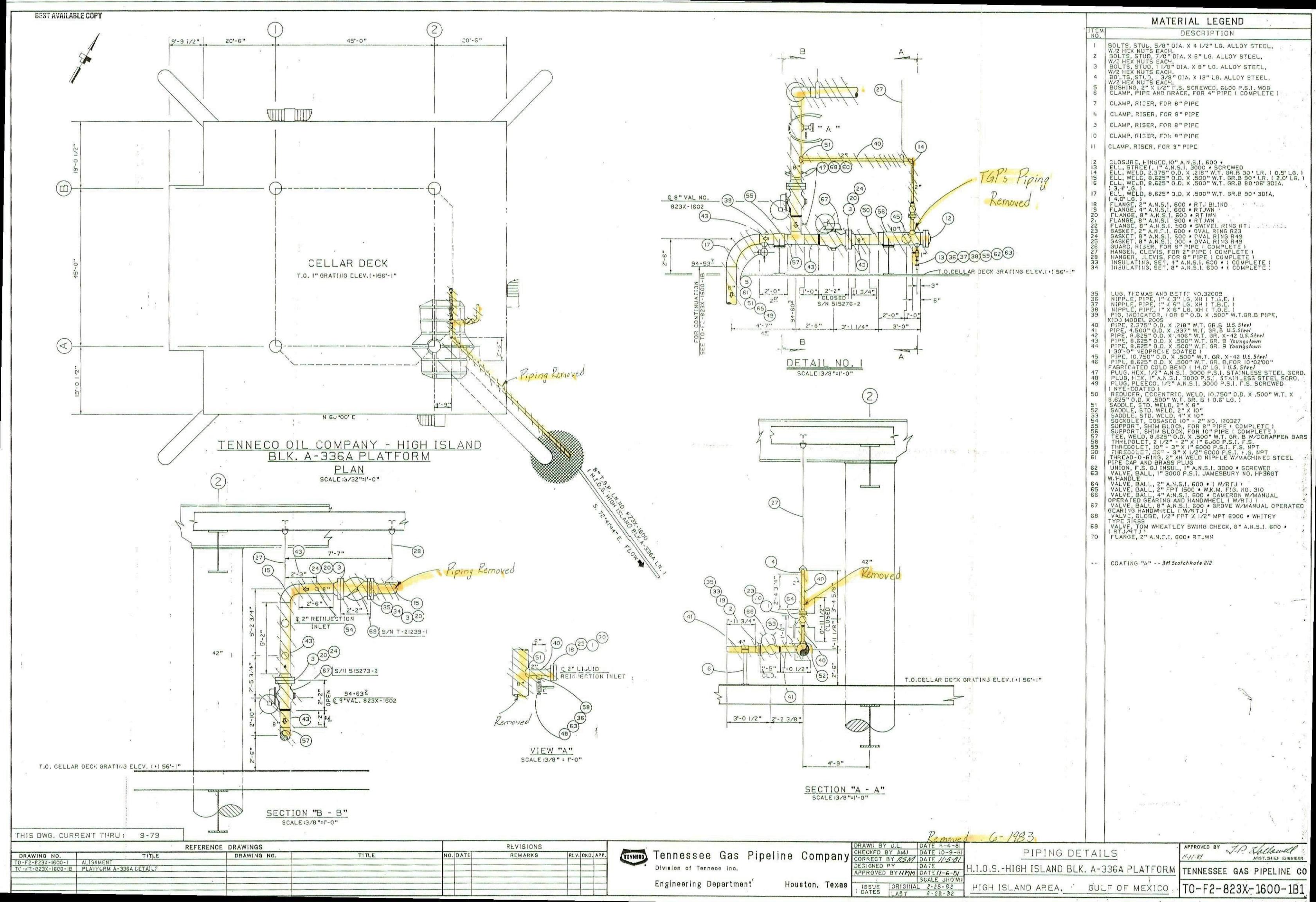
. . . -

ABANDONMENT PROCEDURE High Island A-336 Completed June 1983

- 1. Mobilize equipment to Tenneco Oil's High Island A-336-A platform and close main line Valve No. 823X-1602.
- 2. Install 8" Poly pig in pig trap.
- 3. Launch and run pig with high pressure water.
 (9,463 ft. of 8.625" O. D. x .406 W. T. Pipe =
 23,300 gallons.)
- 4. When pig reaches trap at H.I.O.S. High Island A-343-A platform, close main line valve 823X-1601.
- 5. Bleed water pressure from line.
- 6. Cut 8" pipeline sub-sea at base of risers at stations 4+50.7 and 91+52.6 (water depth approx. 235 ft.)
- 7. Install 8" foreman plugs in ends of abandoned pipeline.
- 8. Jet down ends of 8" pipeline and ensure they have 3 ft. of cover.
- 9. At High Island A-343-A, remove meter station, platform piping and riser from H.I.O.S. platform. Install 16" blind flange and 6" blind flange on H.I.O.S. piping.
- 10. At High Island A-336-A, remove meter station, platform piping and riser from Tenneco Oil platform. (Tenneco Oil to relocate and re-use platform decks)









United States Department of the Interior

MINERALS MANAGEMENT SERVICE GULF OF MEXICO OCS REGION 1201 ELMWOOD PARK BOULEVARD NEW ORLEANS, LOUISIANA 70123-2394



In Reply Refer To: LE-3-1

N. O. Misc. No. 014

November 30, 1989

ACTION & 40 PD

Tennessee Gas Pipeline Company

Right-of-Way

MERGER AND CHANGE OF NAME RECOGNIZED

On October 17, 1989, there was filed in this office for approval evidence of merger of Tenneco Merger Company, an unqualified corporation, with and into Tenneco Inc., a Delaware corporation (N. O. Misc. No. 014), and, as of the date of the merger, Tenneco Inc. changed its name to Tennessee Gas Pipeline Company. The effective date of the merger and simultaneous change of name is December 8, 1987. The name of the surviving corporation is Tennessee Gas Pipeline Company and the qualification number assigned thereto is New Orleans Miscellaneous File Number 014.

In connection with the merger and change of name, the following evidence was received:

- Agreement and Plan of Merger of Tenneco Merger Company with and into Tenneco Inc. under the name of Tennessee Gas Pipeline Company, duly certified by the Secretary of State of the State of Delaware on December 8, 1987, with additional certification by James Gaughan, Assistant Secretary of Tennessee Gas Pipeline Company, on June 7, 1989;
- Certificate reflecting that Tennessee Gas Pipeline Company is duly incorporated under the laws of the State of Delaware and is in good standing, executed by the Secretary of State of the State of Delaware, on November 3, 1988;
- 3. Certificate reflecting that Tennesseee Gas Pipeline Company is incorporated under the laws of the State of Delaware and that it is authorized to hold pipeline rights of way and mineral leases on the Outer Continental Shelf, duly executed by Vincent F. Ewell, Jr., Assistant Secretary of Tennessee Gas Pipeline Company, on June 7, 1989;

- 4. Certificate listing the elected or appointed and now acting officers of Tennessee Gas Pipeline Company, duly executed by James Gaughan, Assistant Secretary of Tennessee Gas Pipeline Company, on June 7, 1989;
- 5. Copy of resolutions adopted at a meeting of the Board of Directors of Tennessee Gas Pipeline Company held on May 9, 1989, duly certified by James Gaughan, Assistant Secretary of Tennessee Gas Pipeline Company, on June 1, 1989;
- 6. Bond Rider to be attached to Outer Continental Shelf Right of Way Bond Number 61 S 33110-15-79 BCA changing the name of the principal to Tennessee Gas Pipeline Company, effective December 8, 1987;
- 7. Listing of the pipeline rights-of-way to be affected by the merger and change of name.

Since the transfer and vesting of property rights in the surviving corporation have been effected by State statutes by operation of law and not by individual conveyances, the merger and change of name are hereby approved insofar as they affect pipeline rights-of-way under 30 CFR 250. The change in ownership as to the pipeline rights-of-way listed below is recognized and the records so noted:

| OCS-G NO. | OCS-G NO. | OCS-G NO. | OCS-G NO. | OCS-G NO. |
|-----------|-----------|-----------|-----------------|-----------|
| 0643 | 1345 | 1692 | 1854 | 2121-E |
| 0643-A . | 1376 | 1702 | 1854-A | 2123 |
| 0643-B | 1382 | 1702-B | 1854-B | 2214 |
| 0643-C | 1382-A | 1702-C | 1854-C | 2214-A |
| 0643-D | 1383 | 1702-D | 1854-E | 2975 |
| 0649 | 1434 | 1702-E | 1854-F | 2975-A |
| 0875 | 1434-A | 1702-F | 1854-G | 3221 |
| 0877 | 1434-G | 1702-H | 1854-H | 3221-A |
| 0885 | 1434-H | 1702-I | 1854-I | 3348 |
| 0886 | 1434-J | 1702-K | 1907-W | 3349 |
| 0887 | 1434-K | 1702-L | 1950 - J | 3350 |
| 0887-A | 1461 | 1702-M | 1950-L | 3355 |
| 0889 | 1464 | 1702-0 | 1992 | 3357 |
| 0891 | 1464-A | 1702-P | 2121 | 3358 |
| 0891-A | 1683 | 1702-Q | 2121-A | 3360 |
| 0892 | 1684 | 1702-R | 2121-B | 3437 |
| 0895 | 1687-S | 1702-S | 2121-C | 3449 |
| 1320 | 1687-T | 1702-T | 2121-D | 3451 |
| | | | | |

N. O. Misc. No. 014

Page 3

| OCS-G NO. |
|-----------|-----------|-----------|-----------|-----------|
| 3455 | 4028 | 4290 | 4855 | 7109 |
| 3613 | 4030 | 4291 | 4977 | 7535 |
| 3614 | 4040 | 4306 | 5135 | 7536 |
| 3626 | 4043 | 4308 | 5136 | 7552 |
| 3633 | 4061 | 4309 | 5137 | 7554 |
| 3638 | 4150 | 4340 | 5141 | 7575 |
| 3644 | 4154 | 4341 | 5152 | 7576 |
| 3648 | 4158 | 4373 | 5157 | 7587 |
| 3652 | 4160 | 4374 | 5232 | 8046 |
| 3828 | 4161 | 4526 | 5253 | 8047 |
| 3837 | 4169 | 4603 | 5259 | 8050 |
| 3845 | 4171 | 4605 | 5933 | 8056 |
| 3848 | 4173 | 4608 | 5937 | 8057 |
| 3851 | 4276 | 4609 | 6381 | 8527 |
| 3852 | 4282 | 4613 | 6546 | 8617 |
| 3855 | 4283 | 4641 | 7096 | 10396 |
| 3861 | 4284 | 4644 | 7104 | 11165 |
| 3862 | 4287 | 4686 | 7107 | 11174 |

J. Rogers Pearch Regional Director

cc: Associates

Case Files

Qualification File (N. O. Misc. No. 014)

5N5443

BEST AVAILABLE COPY

MAY 23 1984

In Reply Refer To: RP-2-2 OCS-G 4040

ACTION

Tenneco Inc.

Pipe Line Right-of-Way

Date of Permit: 8/14/79

vate of Permit:

Decision Requesting Proof of

Construction Dated:

Proof of Construction Received: 5/4/84

Proof of Construction Accepted

The above-captioned grantee has submitted the evidence required by the law and Regulations 30 CFR 256.95(a). The proof of construction is hereby accepted and approved. Deviation from the original plat has been noted and new plat made a part of the record.

Because grantee has deviated from the approved right-of-way by ±25 feet in Block A-343, High Island Area, East Addition, South Extension, Tenneco Inc. must notify Exxon Corporation, operator of Lease OCS-G 2741, to that effect. A return-receipt-card or letter from Exxon Corporation evidencing proof of notice must be submitted to this office within 60 days of receipt hereof. The total length of the "as-built" 8 5/8-inch pipeline right-of-way is 1.66 miles.

(Orig. Sgd.) John L. Rankin

John L. Rankin Regional Manager

CERTIFIED MAIL NO. P21 4379111

bcc: P/L OCS-G 4040 (LE)

LP/L OCS-G 4040 (w/attachments) (RP-2-2)

RM Reading File

ABritton:1v:5/21/84:Disk 6

already but

Tennessee Gas Pipeline

Division of Tenneco Inc.

P.O. Drawer 53388 Lafayette, Louisiana 70505 (318) 233-7802



April 2, 1984

Minerals Management Service Rules and Production (RP-2-2) Mr. D. W. Solanas, Regional Supervisor P. O. Box 7944 Metairie, Louisiana 70010

Re: Proof of Construction

OCS-G 4040 Pipeline Right of Way
High Island Area (Gulf of Mexico)
High Island Blk. 336-B Line

Dear Mr. Solanas:

On August 7, 1979, application for pipeline right of way was approved and permit issued for the construction of a ten inch (10") natural gas pipeline in the High Island area, Gulf of Mexico, Louisiana.

In accordance with regulations 43 CFR 3340.3, we attach herewith, in triplicate, the as-constructed drawing No. TO-F2-823X-1600-1, showing the deviation from the right of way as originally planned and submitted, along with duplicate copies of hydrostatic test data.

If there is any additional information needed pertaining to this matter, please advise.

Yours very truly,

R. S. Perot

Assistant Division

Right of Way Supervisor

RSP/jsb Enclosure

cc: R. L. Sanderson

H. M. McLeod

R. E. Lyons

J. C. Broome, III

R. G. Robertson

J. D. DeBlieux

F. J. Millette, Jr.

APR 04 1984

Minerals Managema

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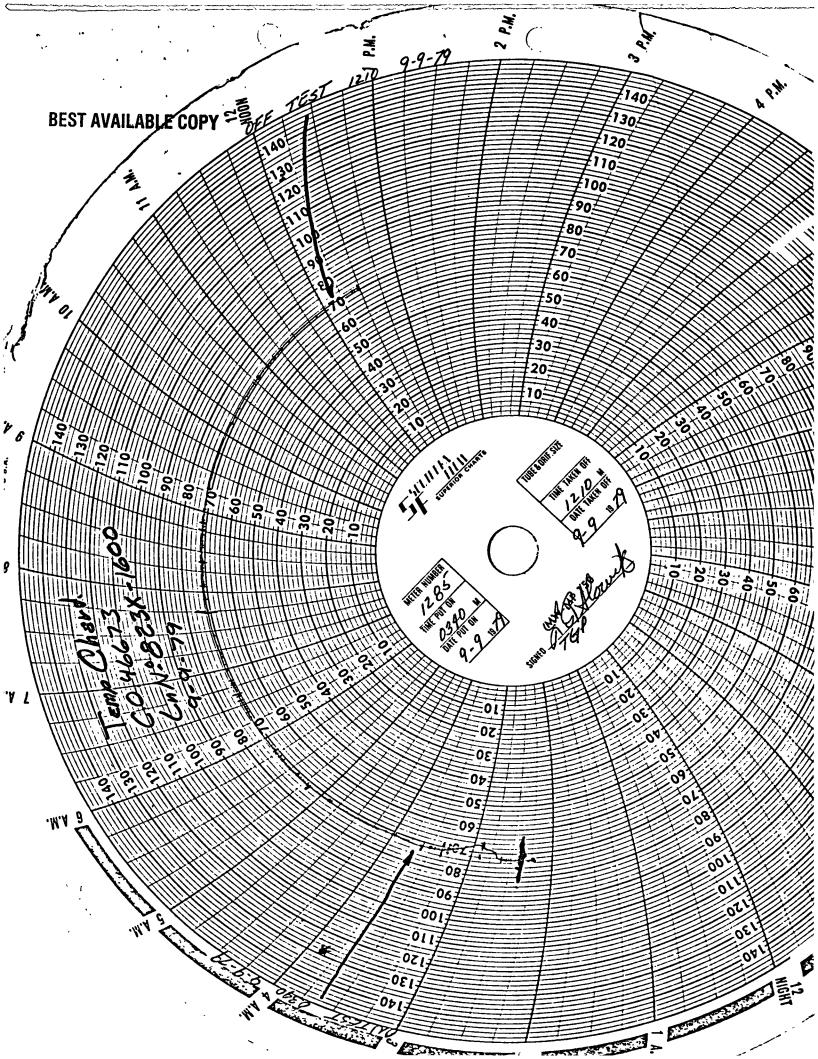
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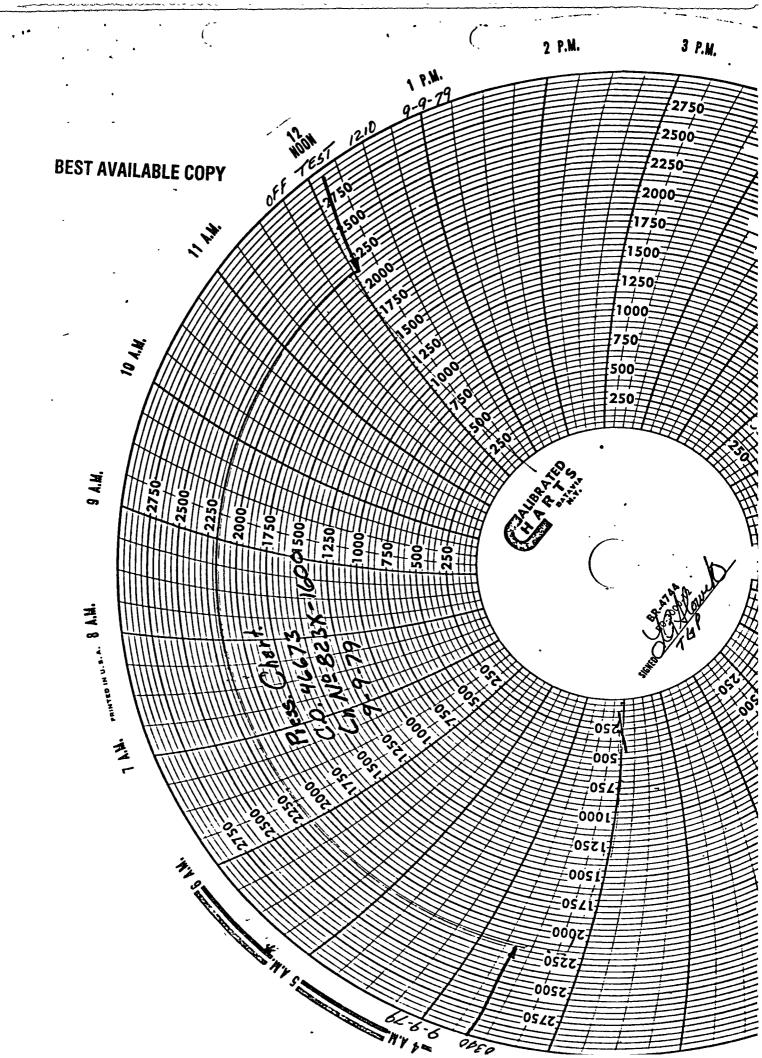
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|--|------------------------------------|--------------|-------------------|---------------------------------------|---|--------------------------|
| IOTE: & E PROCEDURE | , | ` | eomر PE TEST | REPORT | 5-G-11-04D | 823 X-1600 |
| C.O. NO. | DISTRICT | LINE NO. | | SPREAD | SECTION | DATE |
| 46673 DRAWING NO. | 823 | 823 | X-1600 | CHICKASAW | | 9-9-79 |
| TF-F2-8234-16 | CO- FROM M | 8524 | | FROM STA. C+C | 11 to STA. 941 | 60.2 8801.9 Live |
| NOMINAL PIPE | 8.625 IN. | .404 | | u.s.s | • | 567.3 Riser |
| 100% S.M.Y.S. PRESSURE | M.A. | O.P. | | PIPELINE CONTRACTOR | er . | |
| 3297 HYDROSTATIC TEST CONTRAC | PSIG TOR | | PSIG | SANTA PROJECT MANAGER | re | |
| SANTE | FE | | | GEORG | LE GERNON | |
| COMPANY PERSONNEL INVOLV | | | SR - L. R. SLO | ik 0 | . ? . | |
| TENNESSEE TEST MEDIUM (WATER, GAS, SEAWATER | | ~~~~~ | SE - K. R. SLO | wik Ger | orge Benois | I |
| 3CV WATER | END C | | DDECEURE | l u.c.u | LOW | END OF |
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| | | 11 | /8" P/ | 0195 | . // | \ |
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| li de la companya de | 1 FOOT OF WATE 1 PSI = 2,31 FEI | | SEA WAT | | | WATER SOURCE TEMPERATURE |
| DEVIATION | INITIAL DEVI | A TION: | | PSIG | % s.m.y.s. | |
| DATA (OBSERVED AT PRESSURE PT) | | | PRESSURE | | _ | DEVIATION |
| | FINAL DEVIA | TION: | MAP STATION | PSIG ELEVATION | % S.M.Y.S. | PSI |
| FAILURE | | , , m. | P.M. | | PSI | ~ I |
| DATA (OBSERVED AT FAILURE PT) | DESCRIPTION (A | TTACH SKETCH | OR PHOTO) | REPAIRS MADE (USE BA | CK IF NEEDED) | |
| ALL TIE-IN WELDS WERE | NONDESTRUCTIVE | LY TESTED | | | - · · · · · · · · · · · · · · · · · · · | BY |
| METHOD: ELEVATION DATA DERIVED FF | OM PROFILE SHE | ET TE- | | · · · · · · · · · · · · · · · · · · · | OR U.S.G.S. QUAD SHEET: | |
| | TEST REJE | CTED | | | TEST ACCEPTED | DATE |
| | | | 4 · | TEST INSPECTOR SIGNATURE: | B Slow A | 913 9-9-79 |
| NOTE: SEE ABOVE FAILURE | DATA | | | DISTRICT SIGNATURE: | B. Clutter | 1/20/79 |
| SIGNATURE: | REST A | VAII ARI | F CODY | DIVISION SIGNATURE: | PIST | 11 21 20 |
| | went h | * WITHOU | LOUPT | AGENCY . | AFRICIAN | 11-26-79 |
| DATE: | | | | SIGNATURE: | | |

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|--------|---------------------------------------|--|---------------------------------------|-------------------|--|
| DATE | TIME | DEAD | TEMPER | ATURE | REMARKS: TEST, WEATHER, BLEED OFF, OFF TEST, |
| | | WEIGHT | TEST WATER | AMBIENT | NO. OF STROKES FOR REPRESSURE, ETC. |
| 9-9-79 | 0.340 | 2170 | 72° | 80° | BEGIN TEST |
| | 0410 | 2170 | 1 720 | 800 | |
| | 0440 | 2170 | 720 | 80° | WEATHER: CLOUDY |
| | 0510 | 2167 | 720 | 200 | WIND: 10-20 MPH SERS: 6'-8' |
| | 0540 | 2167 | 720 | 80° | SERS : 6'-8' |
| | 0610 | 2167 | 7/0 | Boo | |
| | 0640 | 2167 | 710 | 800 | |
| | 0710 | 2165 | 710 | 800 | |
| • | 0740 | 2165 | 710 | ROO | |
| | 0810 | 2165 | 710 | 800 | |
| | 0840 | 2165 | 710 | 800 | |
| | 1910 | 2165 | 710 | 800 | |
| | 0940 | 2165 | 710 | 800 | |
| | 1010 | 2165 | 710 | 200 | |
| | 1090 | 2165 | 710 | 600 | |
| | 1110 | 2165 | 710 | 800 | - |
| | 1140 | 2165 | 710 | 800 | - |
| 7-9-79 | 1140 | 2165. | 710 | 800 | END TEST |
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Deadweight CHANDLER S/N 11075
Press. Recorder American S/N PR 52289
Temp Recorder Barton S/N 1285

BEST AVAILABLE COPY





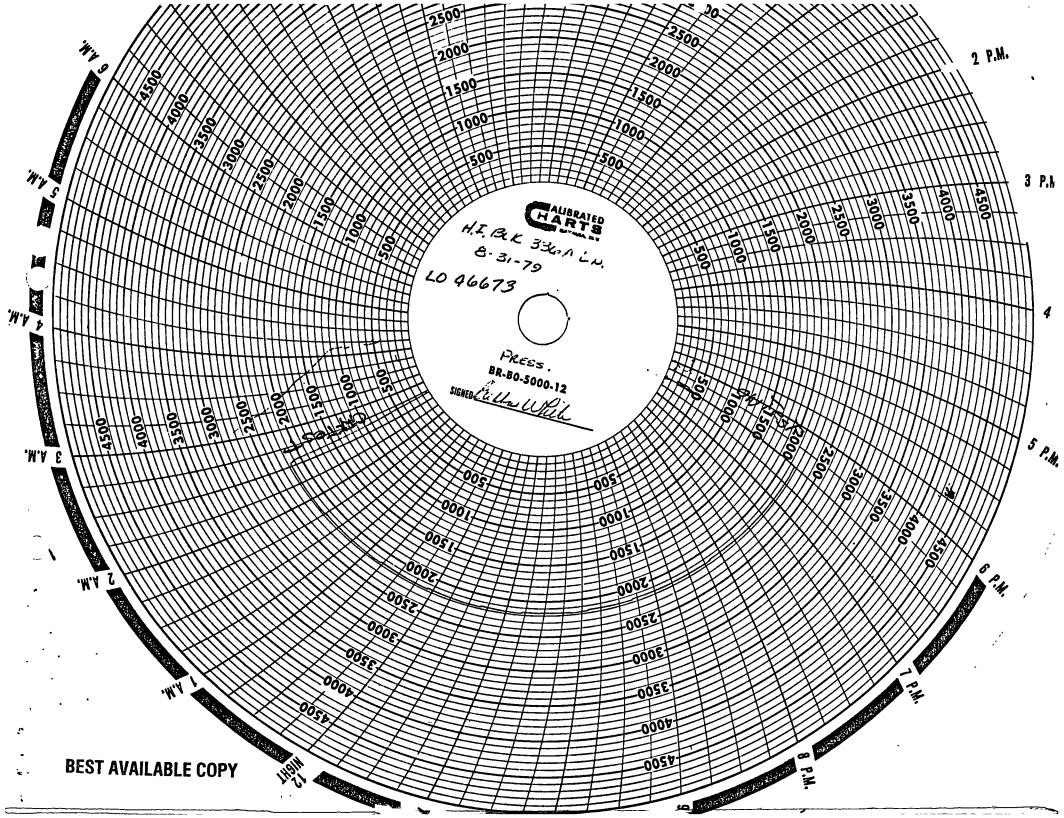
| TGT 4207, 3773 | <u>.</u> | IF! NESSE | E GAS | () () (SHEET_ | 17 C Y 3 | | |
|---------------------------------------|--|------------------|------------------------------------|----------------------|-------------------------|--|--|
| NOTE: SEE PROCEDURE FOR INSTRUCTION | TGT 6-129 | | REPORT OCS | | 23x-1600 | | |
| C.O. NO. | DISTRICT LINE NO. | | SPREAD SE | CTION DA | | | |
| 46673 DRAWING NO. | LOCATION | x-1600 | SECTION TESTED | | FOOTAGE | | |
| TE-FZ-823-16 | SIZE O.D. W.T. | GRADE | FROM STA. JARD | TO STA. | 35 FT. | | |
| NOMINAL PIPE: | 16 IN500 |) IN. 152 | U, S, S. | | | | |
| 3250 HYDROSTATIC TEST CONTRAC | | PSIG | Sma Fe E | IBR. & Const. | | | |
| Santa Fe ENGE. & COWST. George GERNIN | | | | | | | |
| A.E. WHILE | | | | | | | |
| TEST MEDIUM (WATER, GAS, | AIR, OTHER) | | | | | | |
| tresh wa | HER END OF | PRESSURE | нібн | LOW | END OF | | |
| | TEST SECTION | POINT , | ELEVATION | ELEVATION | TEST SECTION | | |
| MAP PLUS | | YARD | Tested | Tipe | | | |
| ELEVATION (FEET) | | | | | | | |
| TEST PRESSURE (PSI) | 2160 | 2160 | 2160 | 2160 | 2160 | | |
| % s.m.y.s | 66.4% | 66.4% | 66490 | 66.490 | 66.4% | | |
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| | 20 Ft RESTADY.SOOWL | Mine ! | APR OA 1984 STRUCTEL | ** H | nited Gas Te-in | | |
| | | | | CAT. | | | |
| | 1 FOOT OF WATER = .433 PSI 1 PSI = 2.31 FEET OF WATER | | MILE POST | W | ATER SOURCE TEMPERATURE | | |
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| (OBSERVED AT PRESSURE PT) | FINAL DEVIATION: | PRESSURE | PS1G | % s.m.y.s. | VIATION PSI | | |
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| DATA (OBSERVED AT FAILURE PT) | DESCRIPTION TATTACH SKET | сн ов Риото) | REPAIRS MADE (USE BACK II | | | | |
| ALL TIE-IN WELDS WERE METHOD: | NONDESTRUCTIVELY TESTED | | | B. | Y | | |
| ELEVATION DATA DERIVED F | ROM PROFILE SHEET TE- | | OR | U.S G.S. QUAD SHEET: | | | |
| | TEST REJECTED | | | TEST ACCEPTED | DATE | | |
| NOTE: SEE ABOVE FAILURE | DATA | • | TEST INSPECTOR SIGNATURE: DISTRICT | - white | 8-31-79 | | |
| | BEST AVAILAE | SLE COPY | SIGNATURE: | Cutrey 1 | 11/20/79 | | |
| SIGNATURE: | | | SIGNATURE: | (Helsky) | 11-26-79 | | |
| DATE: | | | SIGNATURE: | | | | |

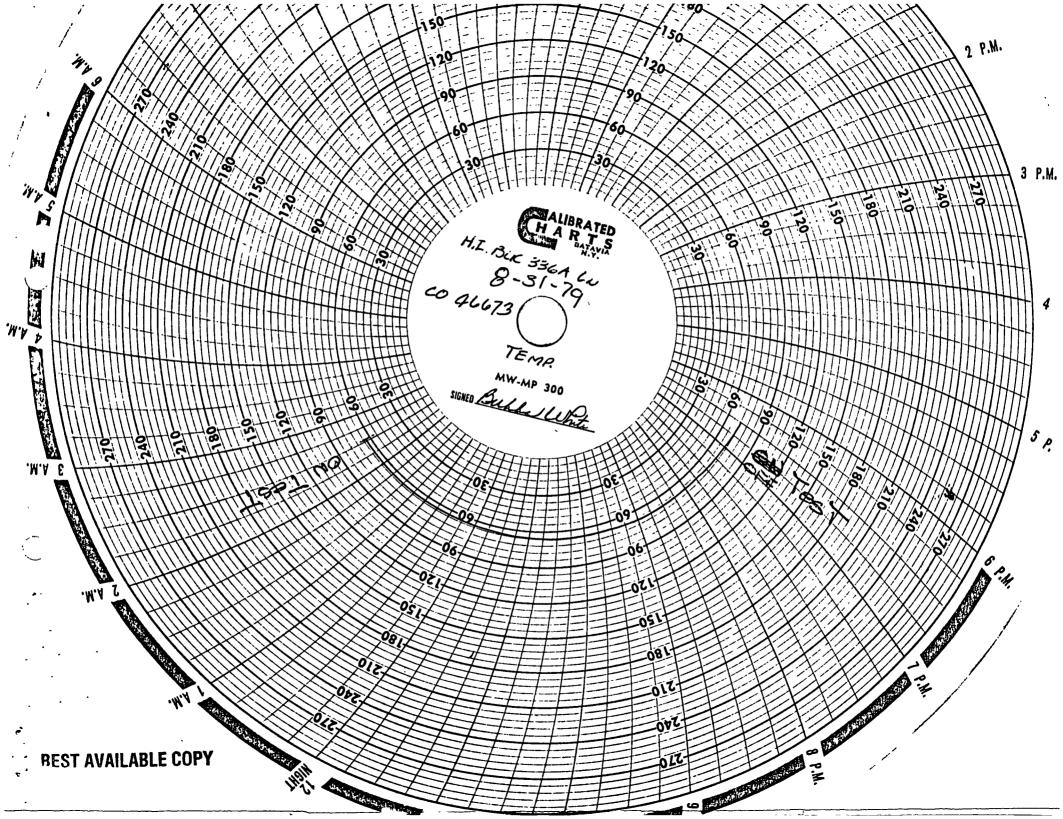
| | | T | ABLE OF TEST PR | | |
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| DATE . TIME | | DEAD | TEMPERATURE | | REMARKS: ON TEST, WEATHER, BLEED OFF, OFF TEST, |
| | <u> </u> | WEIGHT | TEST WATER | AMBIENT | <u>. 4 </u> |
| 8/31/79 | 1830 | 2174 | 660 | 88° | BEGIN TEST |
| | 1845 | 2174 | 660 | 880 | |
| | 1900 | 2174 | 660 | 88° | |
| | 1915 | 2/72 | 1660 | 270 | |
| | 1930 | 2170 | 66° | es-° | |
| | 19 45 | 7.168 | 660 | 850 | |
| | 2000 | 2169 | 660 | 840 | REPRESSURE 2161-2175 |
| | 2015 | 2/75 | 6/0 | 240 | |
| | 20.30 | 2173 | 660 | 240 | |
| | 2045 | 2.173 | 660 | 840 | |
| | 2100 | 2167 | 66 | 8z° | |
| | 2112 | 2169 | 660 | 8z° | RERESURE Z163-Z179 |
| | 21.30 | 2170 | 66° | 82° | |
| | 2145 | 7-166 | 660 | 82° | 2162-2173 |
| | 2200 | 2/75 | 66° | 82. | |
| | 2215 | 2166 | 66° | 810 | 2170-2175 |
| | 2 2.30 | 2/63 | 660 | 810 | |
| | 2245 | 2161 | 660 | 800 | 2160-2165 |
| | 2300 | 2171 | 660 | 80° | 2160-2175 |
| | 23/5 | 2/63 | 65° | 86° | |
| ······································ | 2.3.30 | 2175 | 650 | 80° | 2160-2175 |
| - | 2345 | 2169 | 65° | 80° | 2760 |
| 9-1-79 | 1400 | 2/6/ | 650 | 80° | |
| | 60 15 | 7/70 | 650 | 80° | 71/0-2/75 |
| | 00.30 | 2166 | 650 | 80° | 2160 -2175 |
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| - | 0115 | 2172 | 650 | 80° | 2,00 = 1,0 |
| | 0/30 | 2166 | 650 | 80° | |
| | 0/35 | | 650 | 80° | 2160-2175 |
| | | 2/60 | 650 | 80° | 2.00 0,73 |
| | 0200 | 2/73 | 650 | 80° | |
| | 0215 | 2168 | 650 | 800 | |
| | 62.30 | 2164 | 1-60- | 80- | END OF TEST |
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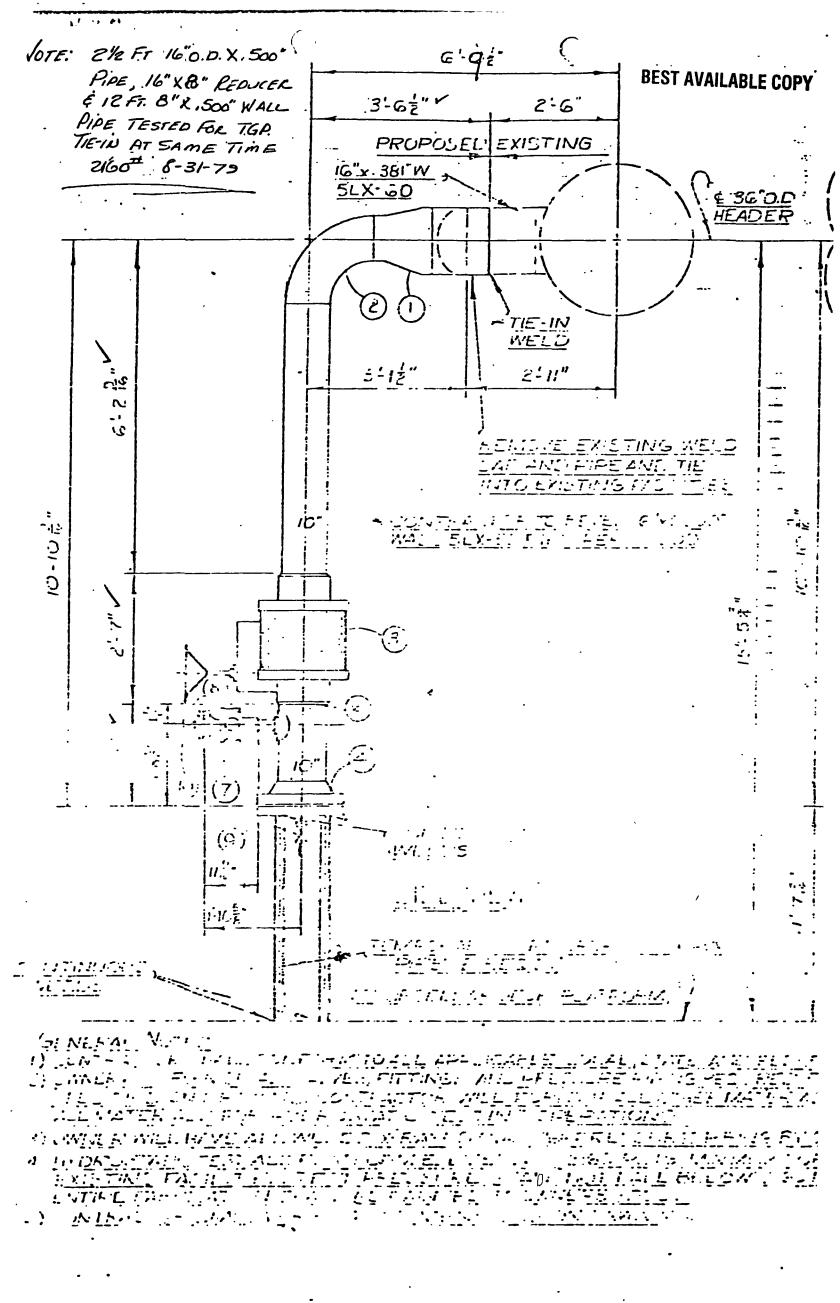
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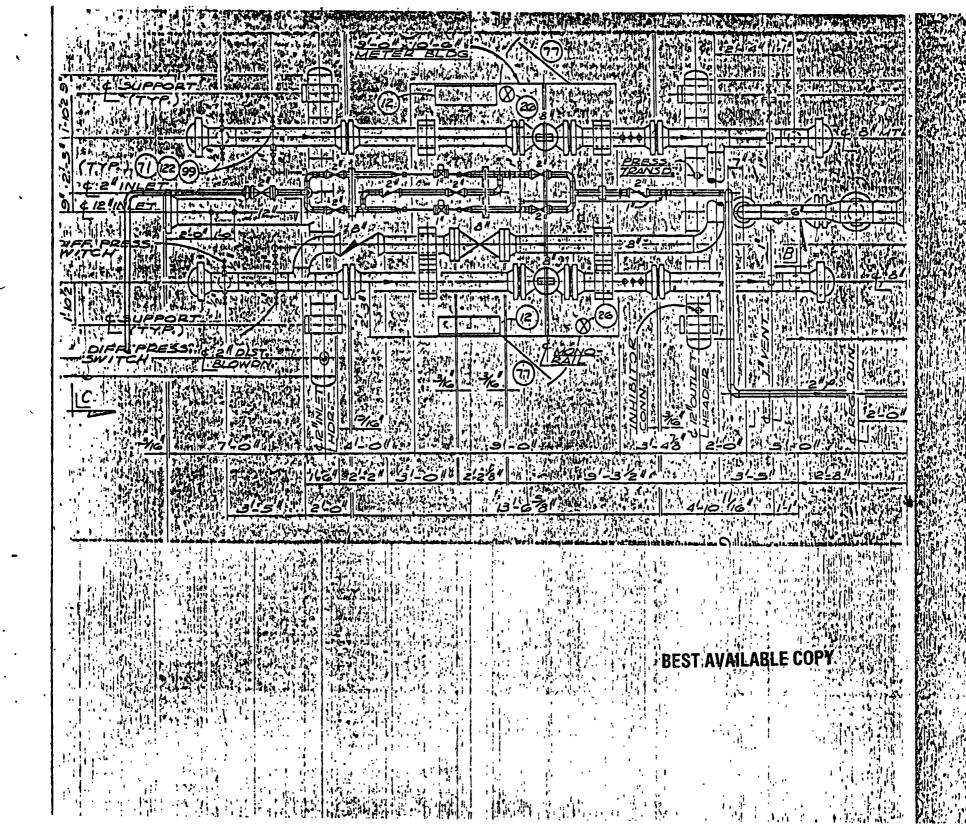
| GT 4207 8/71 | | IF.14. 6 | 05 Pl. B. | SHEET | 1 2 17693 |
|--|--|---|---|------------------|---|
| DTE: SEE PROCEDURE FOR INSTRUCTION | TGT 6-129 · | ICON | REPORT Q5-G | 1 11/1 | 823 X-1660 3 |
| | <u> </u> | X-1400 | SPREAD SEC | TION | AUG. 22 1979 |
| BZ3 X-/602 | | TO MLY | SECTION TESTED FROM STA. | TO STA. | FOOTAGE |
| NOMINAL PIPE: | SIZE O.D. W.T. | GRADE X-42 | MFR. | , | |
| 100% 5.M.Y.S. PRESSURE | M.A.O.P. | O IN. A TO | PIPELINE CONTRACTOR | | |
| 3294 HYDROSTATIC TEST CONTRAC | PSIG TOR | PSIG | SANTA FE | | |
| SANTA F | | | GEORGE G | ERNON | |
| COMPANY PERSONNEL INVOLVE | IRKLAND | | | | |
| TEST MEDIUM (WATER, GAS, | AIR, OTHER) | | | | • |
| | END OF TEST SECTION | PRESSURE - POINT | HIGH ELEVATION | LOW ELEVATION | END OF TEST SECTION |
| MAP PLUS | 0 | 0 | 0 | 0 | 0 |
| ELEVATION (FEET) | 0 | 0 | 0 | 0 | 6 |
| TEST PRESSURE (PSI) | 2141 | 2161 | 2161 | 2161 | 2161 |
| % S.M.Y.S | 66 | 66 | 66 | 66 | 66 |
| 1 + 1 | | | | | 02-1 |
| | AS-C | ONSTALL. | APR 04 1904 Macrols Manaroma C Rules and From 1 | BEST / | AVAILABLE COPY |
| USEFUL CONVERSION • | ASC 1 FOOT OF WATER = .433 PSI | WATER SOURCE | APR 04 19:04 Minerals Manaronary C Rules and Iry 1 6 | BEST | AVAILABLE COPY |
| | | WATER SOURCE | APR 04 19:04 Minerals Manaronary C Rules and Iry 1 6 | BEST / | AVAILABLE COPY |
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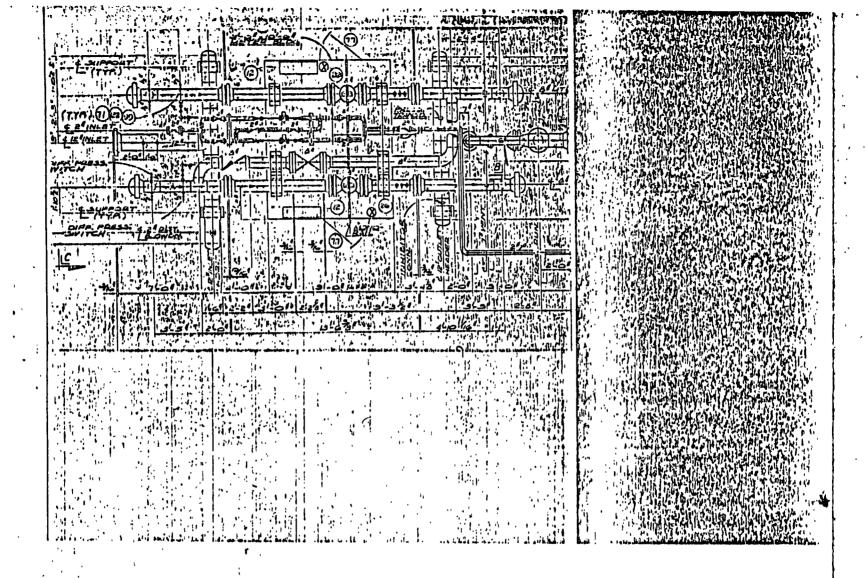
| DATE TIME | TIME | · T, | TEMPE | RATURE | REMARKS: (ON TEST, WEATHER, BLEED OFF, OFF TEST, |
|-----------|----------|-------------------------------|------------|---------|--|
| DATE | I IME | DEAD WEIGHT | TEST WATER | AMBIENT | |
| | #5 | | | | Test slute started at 4:50PM |
| | | | | | End at 8:50 P.m |
| 12/79 | 4:50 P.M | 2174 | 70' | 86 ' | |
| / | 5:00 | 2117 | 70' | 85' | |
| | 5:15 | 2/69 | 70° | 830 | |
| | 5:30 | 2164 | 700 | 821 | |
| • | 5"45 | 2169 | 62 | 82° | |
| | k.00 | 2/63 | 65 | 82. | |
| | 6.30 | 2/18 | 69° | B. | |
| • | 630 | 2/66 | 68 | 83. | |
| . : | 1.45 | 2/64 | 66 | 80. | |
| . 1, | 77.00 | 2/66 | 64' | 100. | |
| • | 7:00 | 2167 | 62 | 80. | • |
| | 7.30 | سترور و سرا | 60 | 80. | |
| | 7:45 | 2/64/ 2/13 2/63 2/64 | 60 | 80. | |
| | 8.00 | 2173 | 60 | 80 | |
| | 8.60 | 2162 | 60' | 79° | |
| | 8:30 | 2/68 | 60 | 79" | |
| | 8:45 | 2/6/ | 60 | 796 | |
| | gov Pim | 2/6/ | 60' | 790 | End of test |
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Dendweight name Chandler Engineering # 1 - 0 74 1/3/19
Presoure Recorder Barton # 242 A-9012 Calibrated 6/8/19
Temp Recorder Bad Barton # 242 A-4163 Calibrated 5/30/19

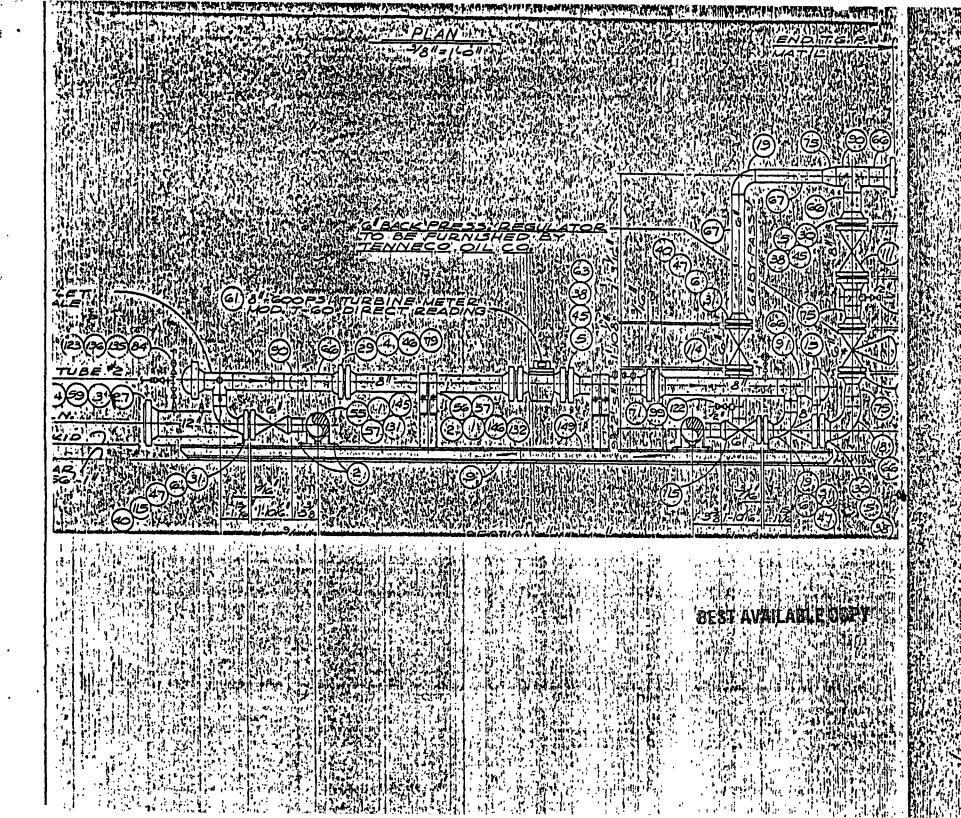
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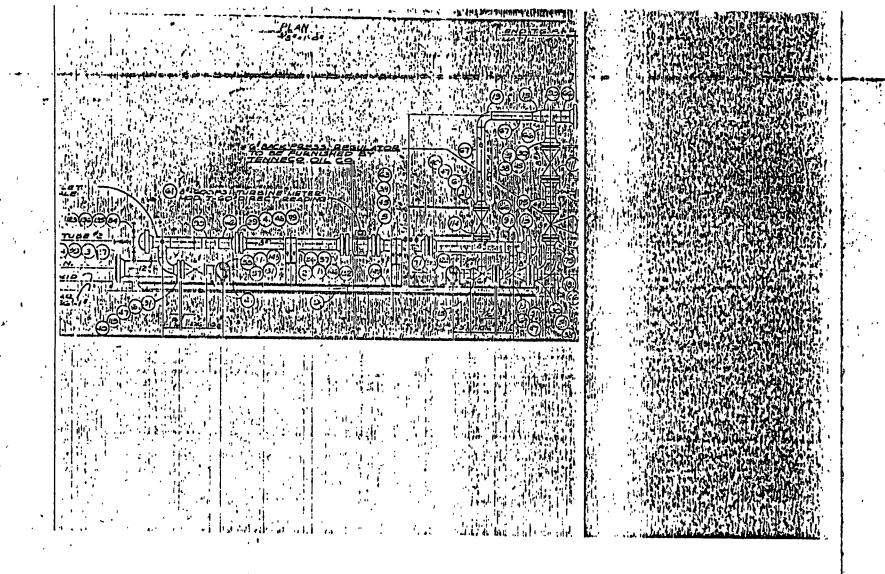
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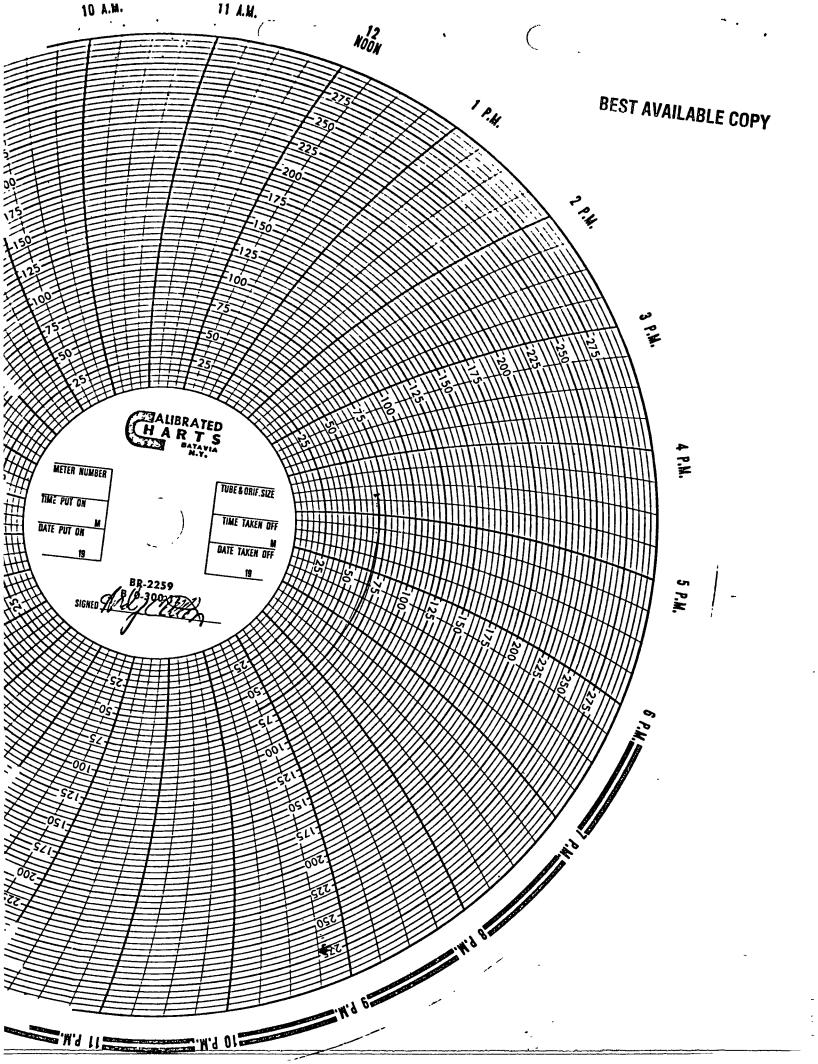


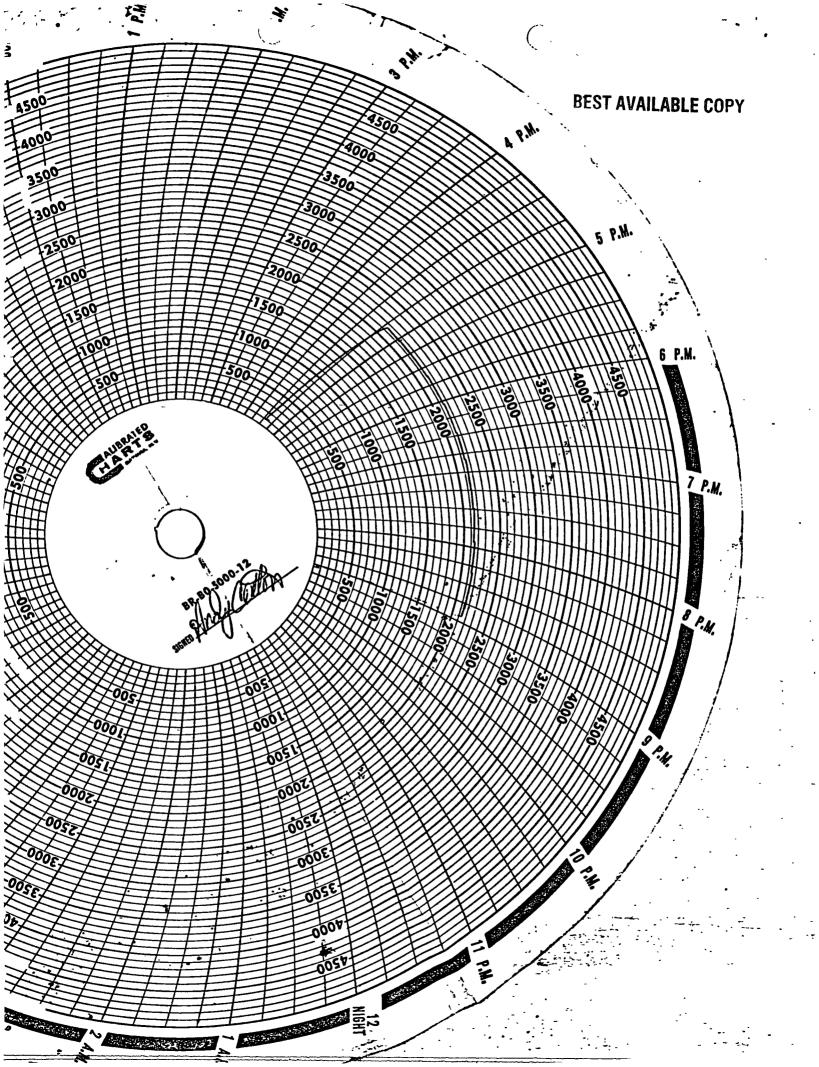


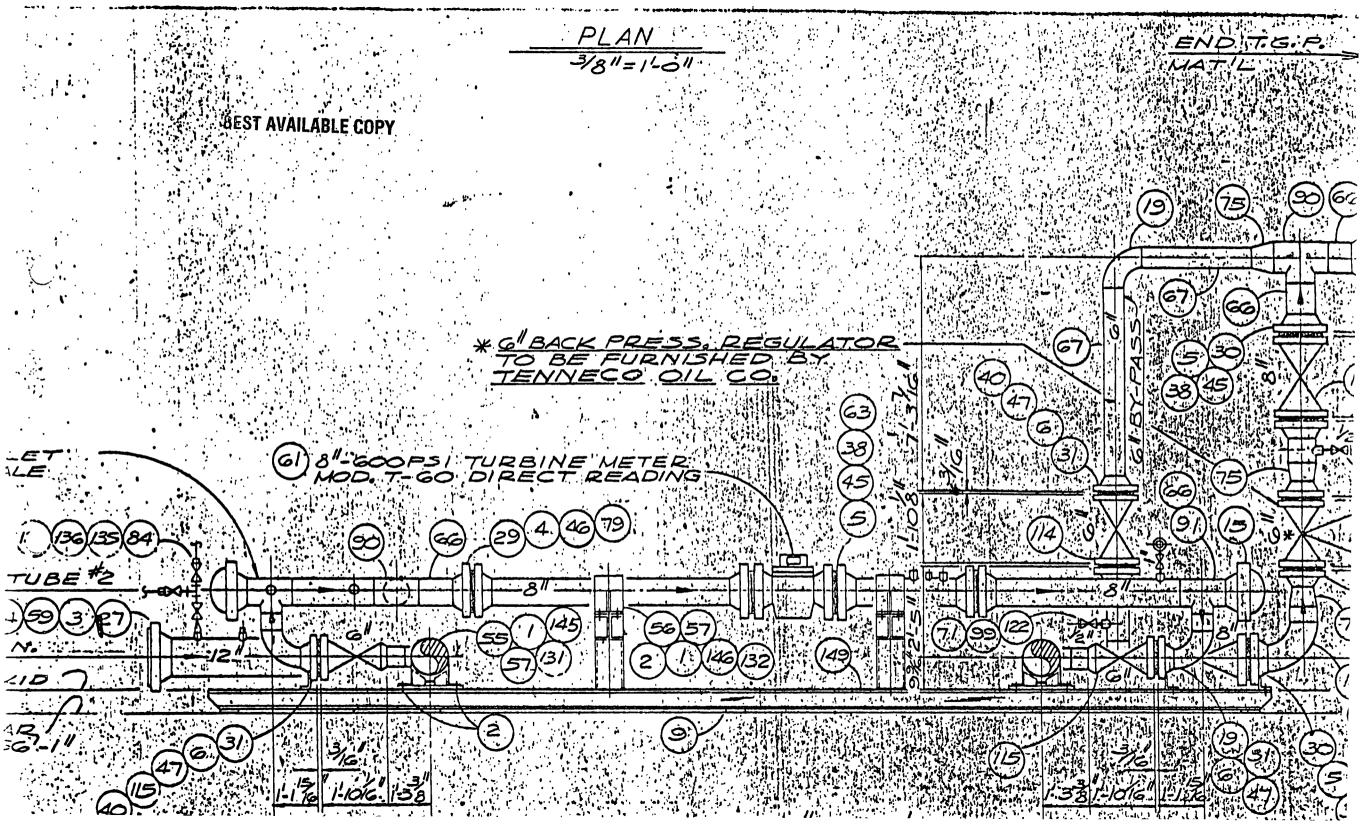
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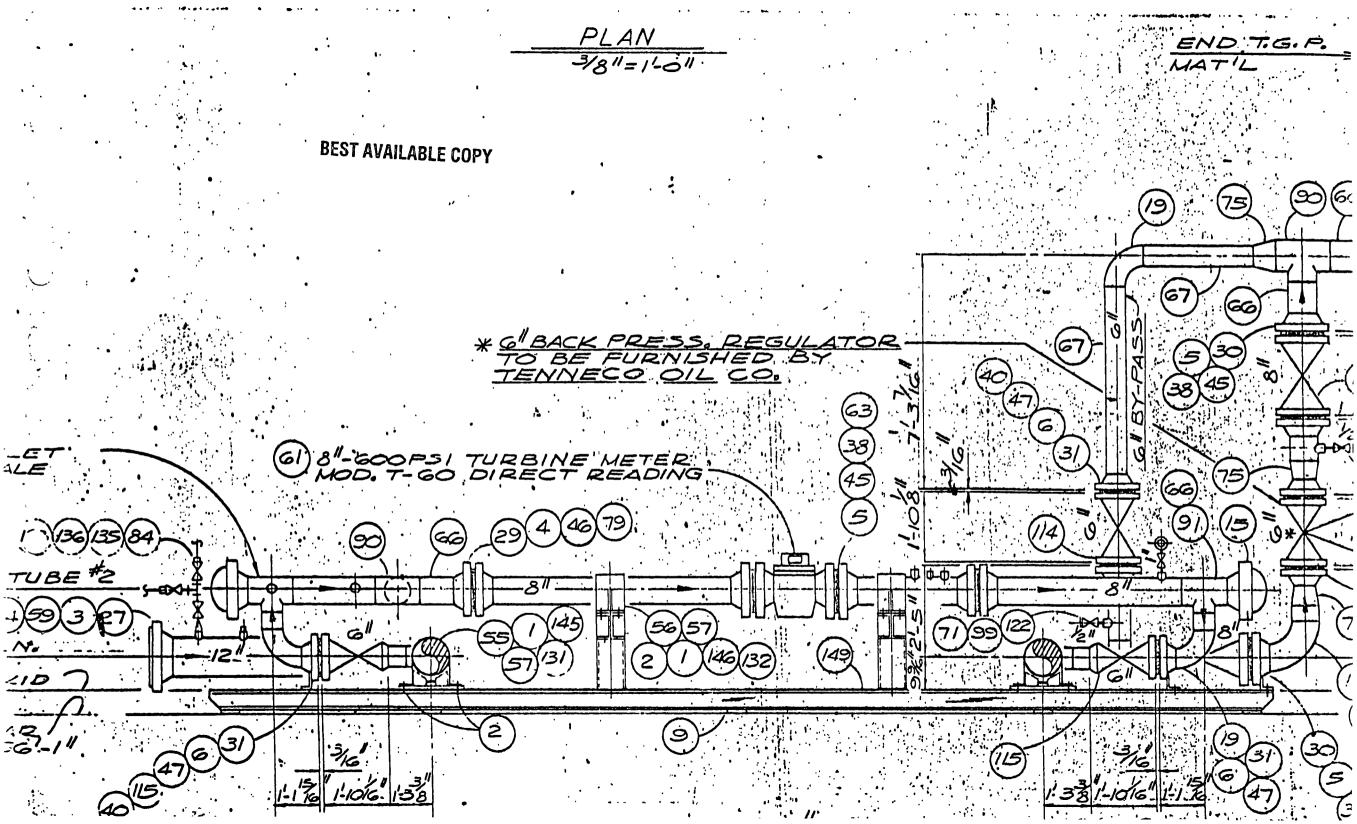












| OTE: SEE PROCEDURE | 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - | Ter v. GA | - FIRELINE | ~ IPSHEET | _2of_2_ |
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| FOR INSTRUCTION | | · · | REPORT OCS | | _ |
| | DISTRICT LINE NO. | 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | - | 823x-1600 |
| C.O. NO. | 1 | | Santa TC SECT | 10M ST | 7 00 70 |
| 46673 | 823 823 | X-1600 | | <u> </u> | 7-28-79 |
| DRAWING NO. | -IBI LOCATION | lard Tested | SECTION TESTED | TO STA. | FOOTAGE |
| TE-F2-823x-160 | <u> </u> | GRADE | FROM STA. YARD | | |
| TE-FZ-823X-1602- | 8.625 IN. 1500 | _ | 1 | Steel | |
| 100% S.M.Y.S. PRESSURE | M.A.O.P. | <u> </u> | HOUNGSTOWN | STEEL | |
| 4,057 | PS16 | PSIG | SANTA F | e const. | Qo. |
| HYDROSTATIC TEST CONTRA | CTOR | | PROJECT MANAGER | | Arriv months auditalist and settlement at plant. +486. |
| SANTA F | e contain | actors. | LEGARGE CER | ENDNJ. | Children |
| TEST MEDIUM (WATER, GAS | , AIR, OTHER! | ld Marae, C | ene Haynes | | PR 0 4 1984 |
| Tested u | with city | water | | It'sarak | Monaromon! Sorvice |
| | END OF | PRESSURE | HIGH | LOW Rul | ดง เกตี Proendion |
| | TEST SECTION | POINT | ELEVATION | ELEVATION | TEST SECTION |
| MAP PLUS | Testing de | ne @ San | LA FE FAB | . ud. Hou | ma La. |
| | , | 1 . | | 7 | |
| ELEVATION (FEET) | 0 | 0 | 0 | 0 | 0 |
| TEST PRESSURE (PSI) | 2160 | 2160 | 2160 | 2/60 | 2160 |
| % s.m.y.s | 53 % | 53% | 53% | 53% | 53% |
| 7507 645764 /477464 | ADDITIONAL CHETCH CHEET IS | · uccees and | FLOW DI | 7557.65 | CTION NO. |
| TRAP Z | | 343A | + | γ | * 1 |
| * The state of the | 7 | Tes | t' Hend 30 | 1. >4 | LAUNCher 10" |
| | 7 | Tes | t' Hend 30 | METER P. N. L | TE-F2-1602-1 |
| * | 1 FOOT OF WATER = 433 PS | WATER SOURCE | MILE POST | METER RUN H | TE-F2-1602-1 |
| USEFUL CONVERSION | 1 FOOT OF WATER = .433 PS | WATER SOURCE | MILE POST | METER RUN H | TE-FZ-1602-1 T.336-A WATER SOURCE TEMPERATURE |
| USEFUL CONVERSION • FACTORS: | | WATER SOURCE | MILE POST | METER RUN H | TE-FZ-1602-1 |
| USEFUL CONVERSION FACTORS: | | WATER SOURCE | MILE POST | METER RUN H | TE-FZ-1602-1 T.336-A WATER SOURCE TEMPERATURE |
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| USEFUL CONVERSION FACTORS: DEVIATION DATA | 1 PSI = 2.31 FEET OF WATE | WATER SOURCE OF PRESSURE 2/72 | IA for | % s.m.y.s. | TE-FZ-160Z-1 T.336-A WATER SOURCE TEMPERATURE 105° FO HO° |
| USEFUL CONVERSION FACTORS: DEVIATION DATA (OBSERVED AT PRESSURE PT | 1 PSI = 2,31 FEET OF WATE | PRESSURE PRESSURE 2/72 PRESSURE 2/72 A.M. MAP STATION | PSIG MILE POST | % s.m.y.s. | TE-F2-1602-1 T.336-A WATER SOURCE TEMPERATURE /05° F0 H0° DEVIATION 2160 F0 2/75 PSI SURE |
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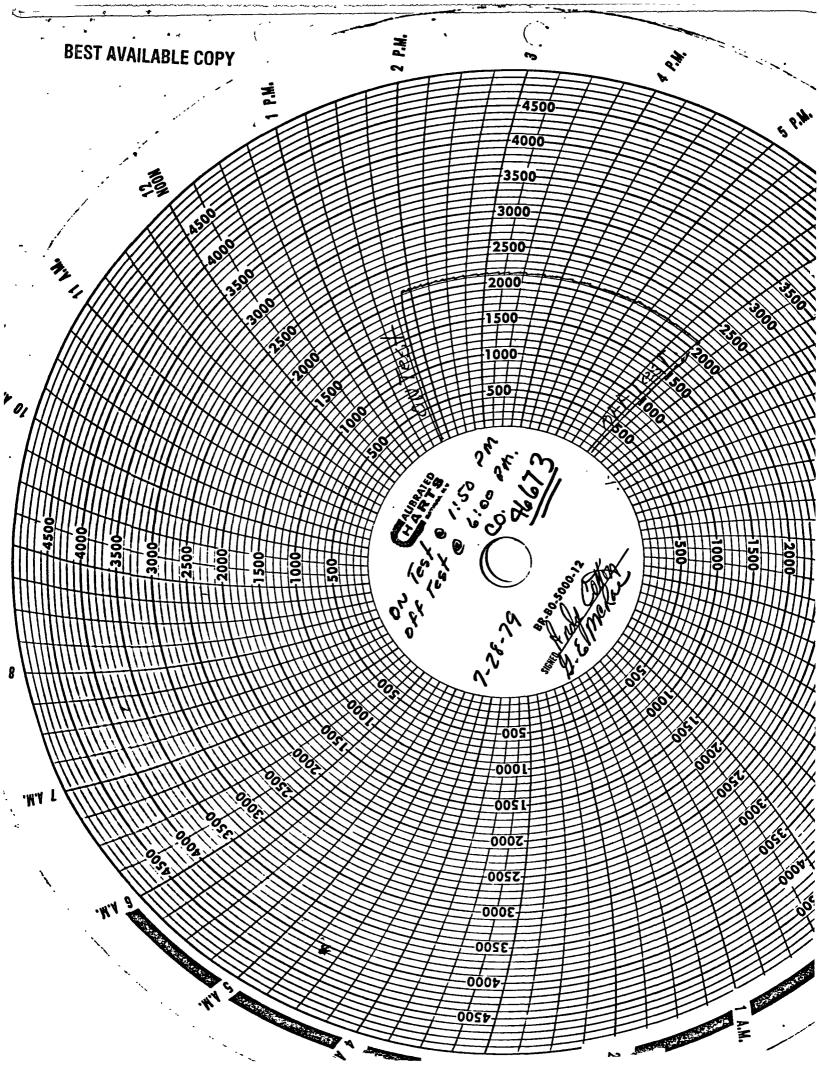
| Zi100 ZI45 107° 94° 0N Test @ 1150-NO LCAKS Zi15 Z175 110° 94° Zi30 Z145 110° 94° Zi45 Z174 110° 94° Zi50 Z146 110° 96° Zi30 Z146 110° 96° Zi30 Z173 110° 96° Zi30 Z173 110° 96° Zi45 Z170 110° 96° 4:00 Z171 110° 96° 4:30 Z161 110° 94° Rimp up Z161 To Z166 @ 4:33 Zi45 Z170 110° 94° III 2160 To Z165 @ 4:43 Si20 Z171 105° 92° III 2160 To Z173 @ 5:11 Si30 Z173 105° 94° III 2160 To Z173 @ 5:11 Si35 Z173 105° 94° III 2160 To Z173 @ 5:37 6:20 Z172 105° 94° III 2160 To Z173 @ 5:37 6:20 Z172 105° 94° III 2160 To Z173 @ 5:37 6:20 Z172 105° 94° III 2160 To Z173 @ 5:37 Ci20 Z172 105° 94° III 2160 To Z173 @ 5:37 Ci20 Z172 105° 94° III 2160 To Z173 @ 5:37 Ci20 Z172 105° 94° III 2160 To Z173 @ 5:37 Ci20 Z172 205° 94° III 2160 To Z173 @ 5:37 Ci20 Z172 205° 94° III 2160 To Z173 @ 5:37 Ci20 Z172 205° 94° III 2160 To Z173 @ 5:37 Ci20 Z172 205° 94° III 2160 To Z173 @ 5:37 Ci20 Z172 205° 94° III 2160 To Z173 @ 5:37 Ci20 Z172 205° 94° III 2160 To Z173 @ 5:37 Ci20 Z172 205° 94° III 2160 To Z173 @ 5:37 Ci20 Z172 205° 94° III 2160 To Z173 @ 5:37 Ci20 Z172 205° 94° III 2160 To Z173 @ 5:37 Ci20 Z172 205° 20 | | | (= | TAB F TEST PE | RESSUR ÈS | |
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| Zi00 Zi65 107° 94° ON Test @1:50-ND Leaks Zi15 Zi75 110° 94° Z:30 Zi65 110° 94° Z:145 Zi79 110° 94° Z:15 Zi79 110° 96° Z:15 Zi70 110° 96° Z:100 Zi64 110° 96° Z:100 Zi71 10° 92° III Zi60 To Zi65 Qi12 Si60 Si60 Si60 Si60 Si60 Si60 Si60 Si60 | | | WEIGHT | TEST WATER | | NO. OF STROKES FOR REPRESSURE, ETC. |
| Zino Zils 107° 99° Zins Zils 110° 99° Zins Zils 110° 99° Zins 2170 110° 99° Zins 2170 110° 99° Zins 2170 110° 96° Zins 2170 110° Zins 2170 2170 2170 2170 2170 2170 2170 2170 | -88-79 | 1:50 RM. | 2/72 | 105° | 940 | Westher Cond. P/C & windy |
| 2:15 2/75 1/0° 94° 2:30 2/65 1/0° 94° 3:00 2/66 1/0° 96° 3:100 2/66 1/0° 96° 3:130 2/23 1/0° 96° 3:45 2/70 1/0° 96° 4:00 2/71 1/0° 96° 4:15 2/66 1/0° 96° 4:45 2/70 1/0° 96° 4:45 2/70 1/0° 96° 5:100 2/71 1/05° 92° 11 2/60 To 2/65 @4/95 5:100 2/71 1/05° 92° 11 2/60 To 2/73 @4/57 5:100 2/73 1/55° 92° 11 2/60 To 2/73 @5:17 5:135 2/62 1/55° 92° 11 2/60 To 2/73 @5:37 6:00 2/72 1/55° 94° 11 2/60 To 2/73 @5:37 6:00 2/72 1/55° 94° 11 2/60 To 2/73 @5:37 | | | 2165 | 107 * | 940 | |
| 2:30 2/65 110° 94° 2:45 2/74 10° 94° 3:00 2/66 110° 96° 3:15 2/64 10° 96° 3:15 2/70 10° 96° 3:145 2/70 10° 96° 4:00 2/71 10° 96° 4:00 2/71 10° 96° 4:15 2/66 10° 96° 4:15 2/70 10° 96° 4:15 2/70 10° 96° 4:15 2/70 10° 96° 4:15 2/70 10° 96° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10° | · · · · · · · · · · · · · · · · · · · | | 2175 | 1100 | 940 | |
| 2:45 2:79 10° 94° 3:00 2:44 110° 96° 3:15 2:44 110° 96° 3:30 2:73 110° 96° 4:00 2:71 110° 96° 4:15 2:66 110° 96° 4:15 2:16 110° 96° 4:15 2:170 110° 96° 11° 12:160 fo 2:165 @ 4:193 5:100 2:71 105° 92° 11° 12:160 fo 2:173 @ 4:513 5:15 2:162 105° 92° 11° 2:160 fo 2:173 @ 5:103 5:15 2:173 105° 92° 11° 2:160 fo 2:173 @ 5:11 5:15 2:173 105° 94° 11° 2:160 fo 2:173 @ 5:18 5:18 2:173 105° 94° 11° 2:160 fo 2:173 @ 5:37 6:100 2:172 105° 94° 11° 2:160 fo 2:173 @ 5:37 6:100 2:172 105° 94° 11° 2:160 fo 2:173 @ 5:37 6:100 2:172 105° 94° 11° 2:160 fo 2:173 @ 5:37 6:100 2:172 105° 94° 11° | * · | | | 110 | 940 | |
| 3:100 2/66 1/0° 96° 3:30 2/73 1/0° 96° 3:345 2/70 1/0° 96° 4:100 2/71 1/0° 96° 4:30 2/66 1/0° 96° 4:30 2/61 1/0° 96° 4:30 2/61 1/0° 96° 5:00 2/71 1/05° 92° 11 1/06 16 2/65 2/49 5:00 2/71 1/05° 92° 11 1/06 16 2/73 2/75 2/75 5:115 2/62 1/05° 92° 11 1/06 10 2/73 2/75 5:115 2/62 1/05° 92° 11 1/06 10 2/73 2/75 5:115 2/73 1/05° 92° 11 1/06 10 2/73 2/75 5:115 2/73 1/75° 92° 11 1/75 1/75 2/75 2/75 2/75 6:00 2/72 1/75° 99° 11 1/75 1/75 2/75 2/75 2/75 2/75 6:00 2/72 1/75° 99° 2/75 2/75 2/75 2/75 2/75 2/75 2/75 2/75 | * | 2:45 | | 1100 | 900 | |
| 3:15 2164 110° 96° 3:30 2173 110° 96° 4:00 2171 110° 96° 4:30 2166 110° 96° 4:30 2161 110° 96° 4:45 2120 110° 96° 5:00 2171 105° 92° 11 12160 76 2165 €4145 5:00 2171 105° 92° 11 12160 76 2173 € 4157 5:15 2162 105° 92° 11 2160 76 2173 € 5105 5:30 2173 105° 96° 11 2160 76 2173 €5117 5:45 2173 105° 96° 11 2160 76 2173 €5117 5:45 2173 105° 96° 11 2160 76 2173 €5137 6:00 2172 105° 96° 11 2160 76 2173 €5137 | | | | 1/0° | 96° | |
| 3:30 2/73 //0° 96° 4:00 2/71 //0° 96° 4:00 2/71 //0° 96° 4:30 2/66 //0° 96° 4:30 2/61 //0° 96° 4:45 2/70 //0° 94° Rimp up 2/6/ To 2/6/ @ 4/3 3:45 2/70 //0° 94° " " 2/60 To 2/6/ @ 4/3 5:00 2/71 /05° 92° " " 2/60 To 2/73 @ 5/03 5:30 2/73 /05° 94° " " 2/60 To 2/73 @ 5/03 5:35 2/73 /05° 94° " " 2/60 To 2/73 @ 5/37 6:00 2/72 /05° 94° " " 2/60 To 2/73 @ 5/37 6:00 2/72 /05° 94° " " 2/60 To 2/73 @ 5/37 6:00 2/72 /05° 94° " " 2/60 To 2/73 @ 5/37 | | | | 1100 | 960 | |
| \$\frac{3:45}{4:00} \frac{2171}{10^{\circ}} \frac{96^{\circ}}{96^{\circ}}\$ \$\frac{4:00}{4:15} \frac{2166}{2166} \frac{110^{\circ}}{96^{\circ}}\$ \$\frac{4:30}{4:30} \frac{2161}{2161} \frac{110^{\circ}}{96^{\circ}}\$ \$\frac{4:30}{9:30} \frac{2161}{2161} \frac{110^{\circ}}{96^{\circ}}\$ \$\frac{4:30}{9:30} \frac{2161}{2161} \frac{100^{\circ}}{96^{\circ}}\$ \$\frac{4:30}{9!0} \frac{2161}{100^{\circ}} \frac{96^{\circ}}{94^{\circ}}\$ \$\frac{1:00}{9!0} \frac{2161}{100^{\circ}} \frac{96^{\circ}}{94^{\circ}}\$ \$\frac{1:00}{100^{\circ}} \frac{2171}{2100^{\circ}} \frac{96^{\circ}}{92^{\circ}}\$ \$\frac{1:00}{100^{\circ}} \frac{2173}{2130} \frac{95^{\circ}}{96^{\circ}}\$ \$\frac{96^{\circ}}{100} \frac{1:00^{\circ}}{100^{\circ}} \frac{96^{\circ}}{96^{\circ}}\$ \$\frac{1:00}{100^{\circ}} \frac{2173}{200^{\circ}} \frac{96^{\circ}}{96^{\circ}}\$ \$\frac{1:00}{100^{\circ}} \frac{2173}{200^{\circ}} \frac{96^{\circ}}{96^{\circ}}\$ \$\frac{1:00}{100^{\circ}} \frac{2173}{200^{\circ}} \frac{96^{\circ}}{96^{\circ}}\$ \$\frac{1:00}{100^{\circ}} \frac{2173}{200^{\circ}} \frac{96^{\circ}}{96^{\circ}}\$ \$\frac{1:00}{100^{\circ}} \frac{96^{\circ}}{96^{\circ}}\$ \$\frac{1:00}{100^{\circ}} \frac{96^{\circ}}{96^{\circ}}\$ \$\frac{1:00}{100^{\circ}} \frac{96^{\circ}}{96^{\circ}}\$ \$\frac{1:00}{100^{\circ}} \frac{100^{\circ}}{96^{\circ}}\$ \$\frac{1:00}{100^{\circ}} \frac{100^{\circ}}{96^{\circ}}\$ \$\frac{100}{100^{\circ}} \frac{100^{\circ}}{96^{\circ}}\$ \$\frac{100}{100^{\circ}} \frac{100^{\circ}}{96^{\circ}}\$ \$\frac{100}{100^{\circ}} \frac{100^{\circ}}{96^{\circ}}\$ \$\frac{100^{\circ}}{96^{\circ}}\$ \$\frac{100^{\circ} | , 1 | | | 110° | 960 | |
| 4:00 2/7/ 110° 94° 4:30 2/66 //0° 94° Rump up 2/6/ To 2/66 @4/3 4:45 2/70 //0° 94° " " 2/60 To 2/65 @4/45 5:00 2/7/ /05° 92° " " 2/60 To 2/73 @ 4:55 5:15 2/62 /05° 92° " " 2/60 To 2/73 @ 5:51 5:30 2/73 /05° 94° " " 2/60 To 2/73 @5:37 6:00 2/72 /05° 94° " 2/60 To 2/73 @5:37 6:00 2/72 /05° 94° " 2/60 To 2/73 @5:37 | 7 | | | 110° | 960 | |
| 4:30 2/6/ //0° 94° // // 2/60 76 2/65 @4/43 4:45 7/70 //0° 94° // 2/60 76 2/65 @4/43 \$100 2/71 /05° 92° // 2/60 76 2/73 @ 4:58 \$115 2/62 /05° 92° // 2/60 76 2/73 @ 5:03 \$130 2/73 /05° 98° // 2/60 76 2/73 @ 5:11 \$145 70 70 70 70 70 70 70 70 70 70 70 70 70 | 9 | | | 1100 | 96° | |
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| \$\frac{4.45}{5!00} \frac{2170}{271} \frac{105^{\circ}}{95^{\circ}} \frac{92^{\circ}}{1!} \frac{1!}{2!60} \frac{76}{52} \frac{2145}{24} \frac{94.45}{24} \frac{92^{\circ}}{1!} \frac{1!}{2!60} \frac{76}{52} \frac{2145}{24} \frac{94.45}{24} \frac{94.45}{24} \frac{94.45}{1!} 9 | | | | 110 | 940 | Pump up 2161 To 2166 @ 4:3 |
| \$\frac{\sqrt{5}}{5!15} \frac{2}{162} \frac{1}{105} \frac{9}{2} \qu | ····· | | | 110 | 940 | " " 2160 To 2165 @ 4:45 |
| 5115 2/67 /05° 92° 1 2160 To 2173 @ 5503 5:30 2/73 105° 94° 1 2160 To 2173 @ 5511 5:45 2/73 105° 94° 1 2160 To 2173 @ 5:37 6:00 2/72 /05° 94° End Test \$ 12.cd Down | | | | 105 | 920 | |
| \$:30 2/73 /05° 94° " 2/60 To 2/73 @ 5:11 \$:45 2/73 /05° 94° " 2/60 To 2/73 @ 5:37 6:00 2/72 /05° 94° End Tost \$ Bled Down | ****** | | | 1000 | 970 | 1: " 2/60 To 7/73 @ 5!03 |
| \$ 2173 105° 94° 2160 to 2173 @ 5:37 6:00 2172 105° 94° End Test & Bled Down | | | 2173 | 115 | 900 | " " 2/60 To 2/73 @ 5'// |
| 6:00 2/72 /05° 99° End Test & Bled Dow N | | 5.05 | 2/73 | 1050 | 940 | 11 " 21/0 To 2/73 @ 5137 |
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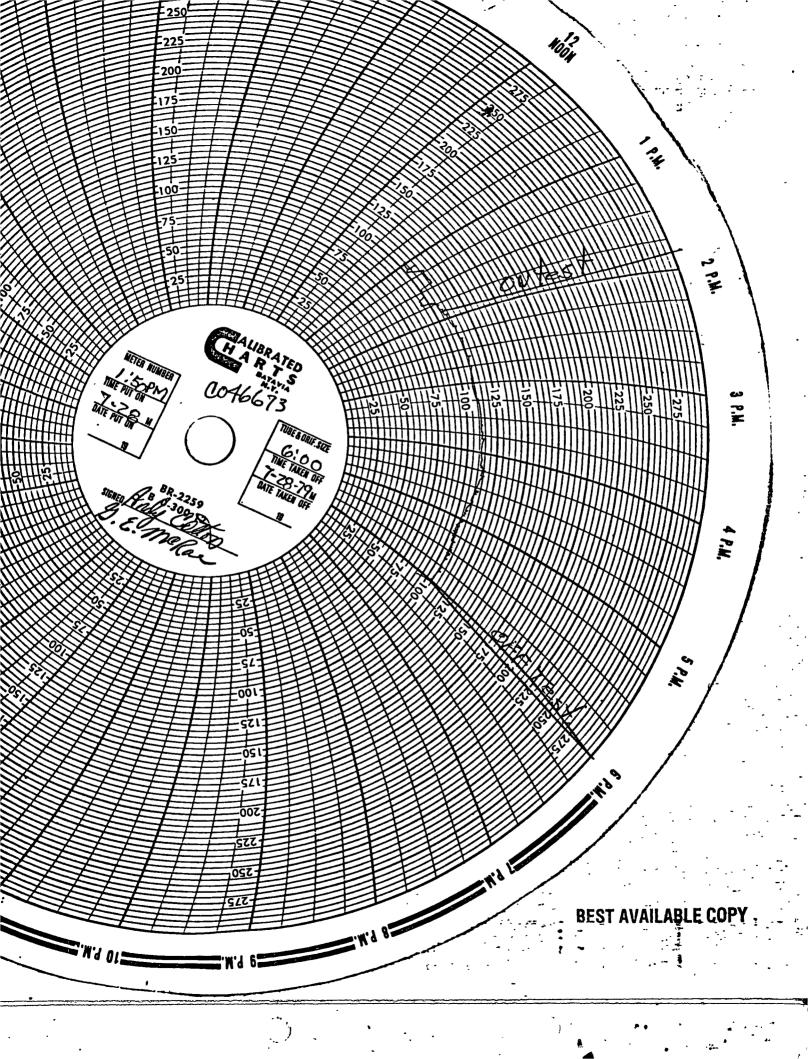
COMMENTS: Dead weight: Chandler Eng. Co. Serial 1074 - Tested 1-23-79

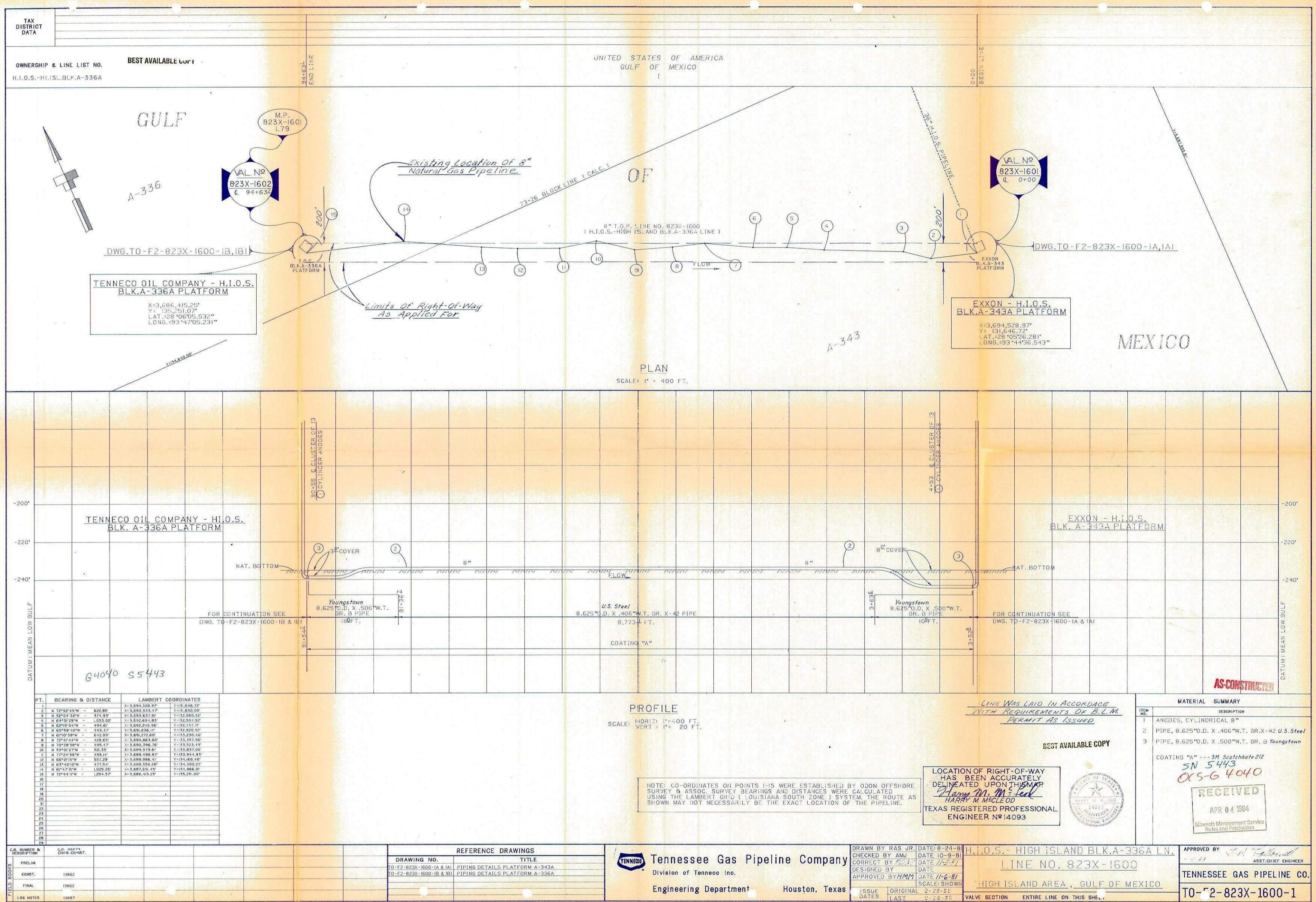
Pres. Recorder: Barton Recorder Ser. #242A-9012-Tested 6-8-79

Temp. Recorder: Barton Recorder Ser #242A-4163-Tested 5-30-79

Tested Platform piping-High Island BLK A.336 A & Platform piping A-343 Both Assemblies Together.







March 24, 1980

Tenneco, Inc.

Attention: F. J. Millette

P. O. Box 53388

Lafayette, Louisiana 70505

Gentlemen:

Please furnish proof of construction in accordance with 43 CFR 3340.3 on the following pipeline rights-of-way:

| OCS-G Number | Decision Issued | OCS-G Number | Decision Issued |
|--------------|-----------------|--------------|-----------------|
| 3360 | 9-15-76 | 4061 | 9-20-79 |
| 3640 | 12-16-77 | 4150 | 10-09-79 |
| 3645 | 3-22-78 | 4154 | 10-11-79 |
| 3837 | 8-25-78 | 4158 | 10-11-79 |
| 3867 | 11-02-78 | 4160 | 10-22-79 |
| 3873 | 11-02-78 | 4161 | 10-22-79 |
| 4028 | 6-12-79 | 4169 | 11-05-79 |
| 4029 | 8-09-79 | 4171 | 12-13-79 |
| 4030 | 7-23-79 | 4172 | 12-13-79 |
| 4040 | 8-14-79 | 4173 | 12-13-79 |

Ho Zumaling

H. P. Sieverding⁽ Acting Manager

210:DWild:prb:3/24/80

| NOTTFT | CATTON | OF | CONSTRUCTION: | |
|--------|--------|----|---------------|--|

| Company | representative furnishing the following information R.S. Perot |
|----------|---|
| Telephor | ne Number (3/8) 233-7802 Date 8-27-79 |
| 1. | OCS Number <u>G 4040</u> |
| 2. | Name of Company Tenneco INC. |
| 3. | Name of Contractor <u>Santa Fe Engineering</u> |
| 4. | Name of lay barge 37 |
| 5. | Size of Pipeline 10.75 - INCH GAS 1.68 muls long |
| 6. | From where to where Ferneco Dic's "B" Platform INBlock 4-336 to 30" |
| | HIOS. P/L IN Block A-343, all located in High Bland area. |
| 7. | Where construction begins and ends (i.e., which platform) $A - 343$ to |
| | H-336 |
| 8. | Method of laying Conventeure ? |
| 9. | How long barge will be on job 30 GAYS |
| 10. | Where heliports are available <u>On Bange</u> |
| 11. | Does the pipeline cross safety fairway(s)? (Go to map for information) NO. |
| | Where |
| | Initial and teminal points: Initial: X = Y = |
| | Terminal: X = Y = |
| 12. | When the barge will begin (date) August 27,1979 |
| Notify: | Frank Torres, U. S. Geological Survey, 837-4720, Ext. 237 (Give him items 1 10 & 12)). Date Contacted // /A |
| | Notify only if construction crosses or in close proximity of fairways Chief O'Neil, Petty Officer Lutali, or Chief Flannegan, U. S. Coast Guard, telephone #6236 (upstairs). Give items 1 - 9 & 11 - 12. Date Contacted |
| | |
| BLM Empl | over July Frillo 8-28-79 |

AJ10 8-28-79

Tennessee Gas Pipeline

Division of Tenneco Inc

P.O. Drawer 53388 Lafayette, Louisiana 70501 (318) 233-7802



August 24, 1979

The Bureau of Land Management U. S. Dept. of The Interior Hale Boggs Federal Building 500 Camp Street, Suite 841 New Orleans, Louisiana 70113

Attn: Chief, Division of Operations

Your Re: OCS-G 4040

Our Re: H. I. Blk. A-336B Line

Dear Sir:

Please be advised that Tennessee Gas Pipeline Company's contractor, Santa Fe Engineering, plans to start construction on the above captioned line on or before August 27, 1979. The lay barge does have a heliport.

Yours very truly

R. S. Perot

Right of Way Agent

RSP/jsb

cc: R. L. Sanderson

L. J. Broussard

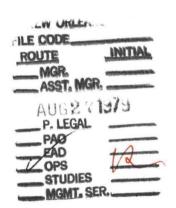
H. E. Fisher

R. G. Robertson

J. D. DeBlieux

F. J. Millette, Jr.

File





SN 5443

REST AVAILABLE COPY

OCS-G 4040

High Island Area

East Addition, South Extension Blocks A-336, A-343

August 7, 1979

Tenneco Inc.

AUG 2 0 1979

Right-of-Way

ACTION - APPLICATION APPROVED

Your application for a 10" natural gas pipeline (H.I.O.S. A-336-B Line) dated May 11, 1979, with its attachments is approved with the following additions and corrections:

- The guidelines for preparation of a pipeline application that are applicable and agreed to by the applicant are dated February 13, 1978.
- 2. The ANSI 600 valves, flanges and fittings should not be subjected to a body test greater than 2,175 psig.
- 3. Hydrostatic test data will be furnished this office within minety (90) days following the test.

The permittee agrees that if any site, structure, or object of historical or archaeological significance should be discovered during the conduct of any operations within the permitted right-of-way, he shall report immediately such findings to the Manager, New Orleans OCS Office, and make every reasonable effort to preserve and protect the cultural resource from damage until the Manager, New Orleans OCS Office, has given directions as to its preservation.

Permittee agrees to comply with all regulations and conditions as may be prescribed by the Secretary of the Interior, or the Secretary of Transportation including, pursuant to section 21(b) of the OCS Lands Act, as amended, provisions to assure maximum environmental protection by utilization of the best available and safest technologies, including the safest practices for pipeline burial. This agreement includes but is not limited to complying with the following stipulations:

 Permittee shall transport or purchase without discrimination oil or natural gas produced from submerged lands or outer Continental Shelf lands in the vicinity of its pipeline in such proportionate amounts as the Federal Energy Regulatory Commission, in consultation with the Secretary of Energy, may, after a full hearing with due notice Tenneco Inc.

-2-

OCS-G 4040

thereof to the interested parties, determine to be reasonable, taking into account, among other things, conservation and the prevention of waste.

- 2. Permittee shall operate its pipeline in accordance with the competitive principles set out in section 5(f)(1) of the Outer Continental Shelf Lands Act, as amended, except insofar as the Federal Energy Regulatory Commission may, by order or regulation, exempt such pipeline from any or all of the requirements of section 5(f)(1) pursuant to section 5(f)(2) (which permits such exemption of any pipeline or class of pipelines which feeds into a facility where oil and gas are first collected or a facility where oil and gas are first separated, dehydrated, or otherwise processed).
- 3. Unless so exempted by Federal Energy Regulatory Commission order or regulation, permittee shall operate its pipeline so as to provide open and nondiscriminatory access to both owner and nonowner shippers, and permittee shall comply with any specific conditions which the Secretary of Energy and the Federal Energy Regulatory Commission may require, after consultation with and due consideration given to the views of the Attorney General, to ensure that its pipeline is operated in accordance with the competitive principles set forth in section 5(f)(1).

/s/ H. P. Sieverding H. P. Sieverding, Acting Manager Date: August 14, 1979

Tenneco Inc. hereby agrees to be bound by the foregoing.

/s/ F. J. Millette
F. J. Millette, Agent and Attorney-in-Fact

Date: August 13, 1979

cc: Geological Survey, USDI

Office of Pipeline Safety Operations, USDT



United States Department of the Interior

GEOLOGICAL SURVEY

434 IMPERIAL OFFICE BLDG . 3301 N CAUSEWAY BLVD
P O BOX 7944

TEL (504) 837-4720

METAIRIE, LOUISIANA 70010

LAND MCM 19792

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Memorandum

In Reply Refer To: OS-5

To:

Manager, Bureau of Land Management, 841 Hale Boggs Federal Building, 500 Camp Street, New Orleans, Louisiana 70130

From:

Conservation Manager, Gulf of Mexico Region

Subject:

Tennessee Gas Pipeline Company's Pipeline Right-of-Way Application,

BLM OCS-G 4040, Reference 2883(210)

We have reviewed the safety features and design specifications for the subject Right-of-Way Application, dated May 11, 1979, in accordance with the MOU dated August 1, 1974. It is for the construction, maintenance, and operation of a 10 3/4-inch gas pipeline 8,878 feet in length from Tenneco's proposed Platform "B", High Island Block A-336, lease OCS-G 2424, to High Island Offshore System's Platform "A", High Island Block A-343, lease OCS-G 2741.

Based upon information submitted in the application, the design characteristics of this pipeline are calculated to be as follows:

| Pipeline Component | Maximum Allowable Operating Pressure/WP Ratings | | |
|---------------------------|---|--|--|
| Submerged component | 2,344 psig | | |
| Riser component | 1,628 psig | | |
| Valves, flanges, fittings | 1,440 psig | | |

The hydrostatic pressure test with water will be at 2,160 psig for eight hours for the submerged component. The riser will be pre-installation-tested to a pressure of 2,160 psig for four hours. The ANSI 600 valves should not be subjected to a test-pressure differential greater than 1,440 psig. The ANSI 600 valves, flanges, and fittings should not be subjected to a body test greater than 2,175 psig.

Based on these calculations, we recommend that the maximum allowable operating pressure for this pipeline be 1,440 psig (which is the hydrostatic test pressure divided by 1.5) and that this pressure may be exceeded only when hydrostatically pressure-testing the pipeline.

The technical aspects of the proposed pipeline are acceptable in accordance with appropriate regulations and standards.

We would appreciate receiving a copy of the plat showing the location of the pipeline as installed.

Acting Conservation Manager

RECEIVED
HAY 29 12 26 PH TO
BUR OF LAND MONTA
OUTER CONTINENTAL
OU

Memorandum

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

IN REPLY REFER TO: 2883 (210)

To

Conservation Manager

Date: May 18, 1979

FROM

Gulf of Mexico OCS Operations

Manager

New Orleans OCS Office

SUBJECT:

Tenneco Inc.'s Pipeline Right-of-way Application (OCS-G 4040)

In accordance with the memorandum of understanding between the Bureau of Land Management and U. S. Geological Survey signed August 1, 1974, the subject application is attached.

Please review the technical aspects of the proposed pipeline. If you have any questions regarding this matter, please contact Mr. Autry J. Britton of this office.

Attachments

1. Application dated May 11, 1979

2. Drawing No. TA-L2-F823X-1600-1, -1A, -1B, and -1C, Revision 1

210/AJBritton/mhh/5-18-79

Tennessee Gas Pipeline

Division of Tenneco Inc

P.O. Drawer 53388 Lafayette, Louisiana 70501 (318) 233-7802 RECEIVED



May 11, 1979

MAY 14 3 28 PM '79

BUR OF LAND MGMT. OUTER CONTINENTAL SHELF OFFICE NEW ORLEAMS, LA.

Mr. John L. Rankin, Manager Outer Continental Shelf Office 500 Camp Street, Suite 841 Hale Boggs Federal Building New Orleans, Louisiana 70130

> e: Application - Right of Way for 10" Natural Gas Pipeline in High Island Area, Gulf of Mexico (H.I.O.S. A-336-B Line)

Dear Mr. Rankin:

Pursuant to Section 5 (c) of the Outer Continental Shelf Lands Act of August 7, 1953 (67 Stat.464), and the regulations contained in 43 CFR 2883, Tennessee Gas Pipeline Company, A Division of Tenneco Inc., is filing this application for a right of way 200 feet (200') in width for the purpose of constructing and maintaining a ten inch (10") natural gas pipeline in the High Island Area, Gulf of Mexico. Tennessee Gas Pipeline Company agrees that said right of way, if approved, will be subject to the terms and conditions of said regulations.

This pipeline will be used to gather and transport natural gas from Tenneco's "B" platform in Block A-336, High Island Area, in the Gulf of Mexico. The tentative construction dated is August 1, 1979, and tentative completion date is September 30, 1979.

As set forth in the April 1, 1976, guidelines as amended February 1, 1977, and April 21, 1977, the applicant agrees to furnish the following:

| NEW ORLEANS OCS FILE CODE 1. ROUTE INITIAL MGR. 2. ASST. MGR. | Letter of Application, in duplicate. Certified and Return Receipts with copies of letter of notification to the following lease and right of way holders |
|--|--|
| PAD LOPS STUDIES MGMT. SER. | a. Gulf Oil Company - OCS-G 2424 b. Tenneco Exploration Ltd OCS-G 2424 c. High Island Offshore System - OCS-G 3302 d. The Superior Oil Company - OCS-G 2741 e. Exxon Corporation - OCS-G 2741 f. Canadian Superior Oil (U.S.) Ltd OCS-G 2741 g. Alminex U.S.A., Inc OCS-G 2741 h. Natresco Incorporated - OCS-G 2741 |

TENNESSEE GAS PIPELINE COMPANY

Mr. John L. Rankin, Manager Outer Continental Shelf Office Page Two H.I.O.S. A-336-B Line

- 3. Six (6) blue line prints of Drawing No. TA-L2-F823X-1600-1, TA-L2-F823X-1600-1A; TA-L2-F823X-1600-1B and TA-L2-F823X-1600-1C showing the location, profile and route of the proposed pipeline, Hi-Lo Censor locations and typical pipeline crossing detail.
- 4. Two (2) blue line prints of Drawing No. TA-L2-F823X-1600-2 showing the leases and pipeline rights of way.
- 5. Bury all pipelines to a minimum of 3 ft. of cover up to the 200 ft. contour. (This particular line is well below the 200 ft. contour).
- 6. Bury all sub-sea valves to a minimum of 1 ft. of cover regardless of water depth.
- 7. A hazard survey report of the proposed right of way route is attached in duplicate.
- 8. An archaeological survey report as stipulated in requirements is not required.
- 9. In accordance with the guidelines an As-Built map along with diving inspection reports will be provided within 90 days after completion of the pipeline.
- 10. Safety devices will be provided as set forth on attached schematic Drawing No. TA-L2-F823X-1600-1B.
- 11. Proper notification prior to construction and hydrostatic testing will be adhered to.
- 12. Any pipeline crossings will be in compliance with the guidelines as set forth.
- 13. Any breaks, leak failures or accidents will be reported as required.

In addition to the above information, applicant submits the following information:

1. Water depth along route of proposed pipeline and pipeline in relationship to natural bottom as set forth on attached drawing No. TA-L2-F823X-1600-1A.

TENNESSEE GAS PIPELINE COMPANY

Mr. John L. Rankin, Manager Outer Continental Shelf Office Page Three H.1.0.S. A-336-B Line

2. The description of the pipe and coating is as follows:

a. Line Pipe

10.750" OD x .500" W.T. Gr B; Weight Bare - 54.74#/ft. coated with 22 mils of heat cured epoxy or coal tar enamel 6/32" thick, giving a specific gravity of 1.36 in salt water (64.0#/cu. ft.).

b. Riser Pipe

10.750" OD \times .500" W.T. Gr B; Weight Bare - 54.74#/ft. coated with 22 mils of heat cured epoxy or coal tar enamel 6/32" thick. Specific gravity of 1.36 in salt water (64.0#/cu. ft.).

c. Internal Coating

The analysis of the transported products will be monitored and preventive measures such as pigging and/or inhibiting will be employed as necessary.

3. Valves and Flanges

- a. Below water valves and flanges will be A.N.S.I. 900 series with a rated working pressure of 2160# P.S.I.
- b. Above water flanges and valves will be A.N.S.I. 600 series with a rated working pressure of 1440# P.S.I.
- 4. The specific gravity of the product being transported is anticipated to be .60 (Air = 1.0), $T = 60^{\circ}F$.
- Weight, type and spacing of anodes to be used as corrosion protection are shown on attached Drawing No. TA-L2-F823X-1600-1B entitled "Schematic." The life expectancy of the proposed pipeline is indefinite. The sacrifical anodes are designed for 40 year life and are to be replaced as necessary to entend life of pipeline.
- 6. The design of the proposed pipeline is in accordance with 'Minimum Federal Safety Standards (Department of Transportation) Title 49. CFR. Part 192."

TENNESSEE GAS PIPELINE CRIMEWRY

Mr. John L. Rankin, Manager Outer Continental Shelf Office Page Four H.1.0.S. A-336-B Line May 14 3 28 PM '79

BUR OF LAND MGMT.

OUTER CONTINENTAL

SHELF OFFICE

NEW ORLEANS, LA.

7. Maximum Allowable Operating Pressure (M.A.O.P.) = 1440# P.S.I.G.

Maximum Capacity = 28 MMCF/D

Maximum Operating Pressure $(M_{\bullet}O_{\bullet}P_{\bullet})$ is less than or equal to 1440# $P_{\bullet}S_{\bullet}I_{\bullet}G_{\bullet}$

Minimum Operating Pressure = 500# P.S.I.G.

A. Calculations

Formulas:

$$P = \frac{2st}{d}$$

$$M_{\bullet}A_{\bullet}O_{\bullet}P_{\bullet} = \frac{2st}{d}(F)(E)(T)$$

Whereas: P = 100% S.M.Y.S.

s = Specified Minimum Yield Strength
t = Nominal Wall Thickness in Inches
d = Nominal Outside Diameter in Inches

(F) = 0.50 for Riser Pipe = 0.72 for Line Pipe

As per Title 49, CFR, Part 192,619

(E) = 1 - for seamless and DSA welded pipe

(T) = 1 - for temperature less than 250° F

a. Riser Pipe

10.750" OD x .500" W.T. Gr "B"

$$P = \frac{2 \times .500 \times 35,000}{10.750} = 3,256 \# P.S.I.G.$$

(1) M.A.O.P. (Design)

$$M_{\bullet}A_{\bullet}O_{\bullet}P_{\bullet} = \frac{2 \times .500 \times 35,000 \times .50 \times 1 \times 1}{10.750} = 1,628 \# P_{\bullet}S_{\bullet}I_{\bullet}G_{\bullet}$$

(2) M.A.O.P. (Hydrostatic Test Pressure)

$$H_{\bullet}T_{\bullet}P_{\bullet} = P \times 90\%$$

= 3,256 x .90 = 2,930# P.S.I.G.
 $H_{\bullet}T_{\bullet}P_{\bullet}$ will be 2,160# P.S.I.G. for 4 hrs.
 $M_{\bullet}A_{\bullet}O_{\bullet}P_{\bullet} = \frac{2160}{1.5} = 1,440# P.S.I.G.$

TENNESSEE GAS PIPELINE COMPANY

Mr. John L. Rankin, Manager Outer Continental Shelf Office Page Five H.1.0.S. A-336-B Line

- (3) $M_A.0_P. = 1628\# P_S.I_G.$ (Design) or $1440\# P_S.I_G.$ (H.T.P.)
- b. Line Pipe 10.750" x .500" W.T. Gr "B"

$$P = \frac{2 \times .500 \times 35,000}{10.750^{11}} = 3,256 \# P_s S_1 G_s$$

(1) M.A.O.P. (Design)

$$M_{\bullet}A_{\bullet}O_{\bullet}P_{\bullet} = \frac{2 \times .500 \times 35,000 \times .72 \times 1 \times 1}{10.750} = 2344\# P_{\bullet}S_{\bullet}I_{\bullet}G_{\bullet}$$

(2) M_aA_•O_•P_• (Hydrostatic Test Pressure)

$$H_{\bullet}T_{\bullet}P_{\bullet} = P \times 90\%$$

= 3256 × .90 = 2930# P.S.I.G.
 $H_{\bullet}T_{\bullet}P_{\bullet}$ will be 2160 P.S.I.G. for 8 hrs.
 $M_{\bullet}A_{\bullet}O_{\bullet}P_{\bullet} = \frac{2160}{1.25} = 1728# P.S.I.G.$

(3) $M_A_0.P_0 = 2344# P_0.S_1.G_0$ (Design) or $1728# P_0.S_1.G_0$ ($H_0.T_0.P_0$)

Since there are A.N.S.I. 600 series valves in the system, the M.A.O.P. therefore is restricted to 1440# P.S.I.G.

- 8. The producers equipment will be designed for 1440# P.S.I.G.
- 9. The 36" line that the proposed line will tie into is 36" OD x .625" W.T. Gr X-60 pipe.
- 10. An originally signed copy of Non-Discrimination in Employment Stipulations is enclosed in duplicate.
- 11. Company contact:

Mr. Reno G. Robertson, Division Civil Engineer P. O. Drawer 53388, OCS Lafayette, Louisiana 70505 318/233-7802

TENNESSEE GAS PIPELINE COMEDANY

Mr. John L. Rankin, Manager Outer Continental Shelf Office Page Six H.I.O.S. A-336-B Line MAY 14 3 28 PM 19

BUR OF LAND MGMT.
OUTER CONTINENTAL
SHELF OFFICE
NEW ORLFANS, LA.

12. Tennessee Gas Pipeline Company's Draft No. 25685 in the amount of \$20.00 of which \$10.00 covers the application fee and \$10.00 covers the first year's rental on 1.68 miles of right of way is also enclosed.

Please refer to your miscellaneous 014 file for a copy of a resolution approved by the Board of Directors authorizing the undersigned as Supervisor-Rights of Way of Tennessee Gas Pipeline Company, A Division of Tenneco Inc., to sign for and on behalf of the Company.

We trust the above information will enable you to expedite the issuance of the Decision approving said right of way.

Yours very truly,

TENNESSEE GAS PIPELINE COMPANY A DIVISION OF TENNECO INC.

F. A Millette, Supervisor

Rights of Way as

Agent and Attorney-in-Fact

Certified Mail - Return Receipt No. 197535

RECEIVED

NOTE: This form must be executed as an original. May 14 3 30 PM '79

BUR OF LAND MGMT. **OUTER CONTINENTAL** SHELF OFFICE NEW ORLEANS, LA.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

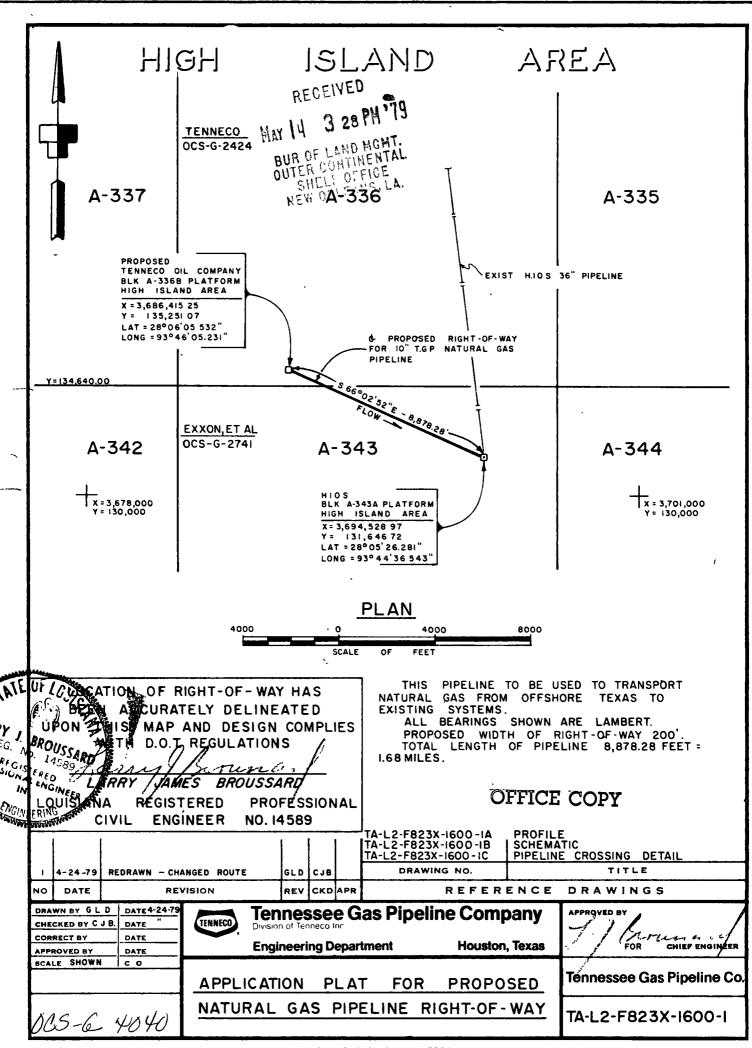
NONDISCRIMINATION IN EMPLOYMENT

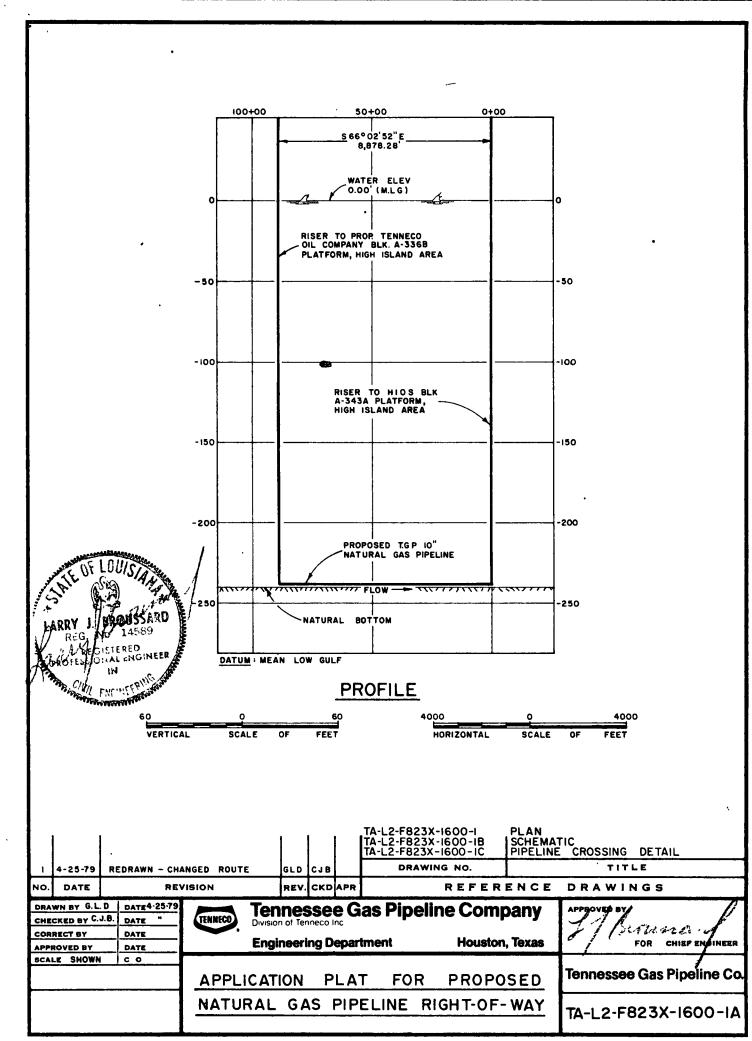
As a condition precedent to the approval of the granting of the subject pipeline right-of-way, the grantee A Division of Tenneco Inc. hereby agrees and consents to the following stipulation which is to be incorporated into the application for said right-of-way.

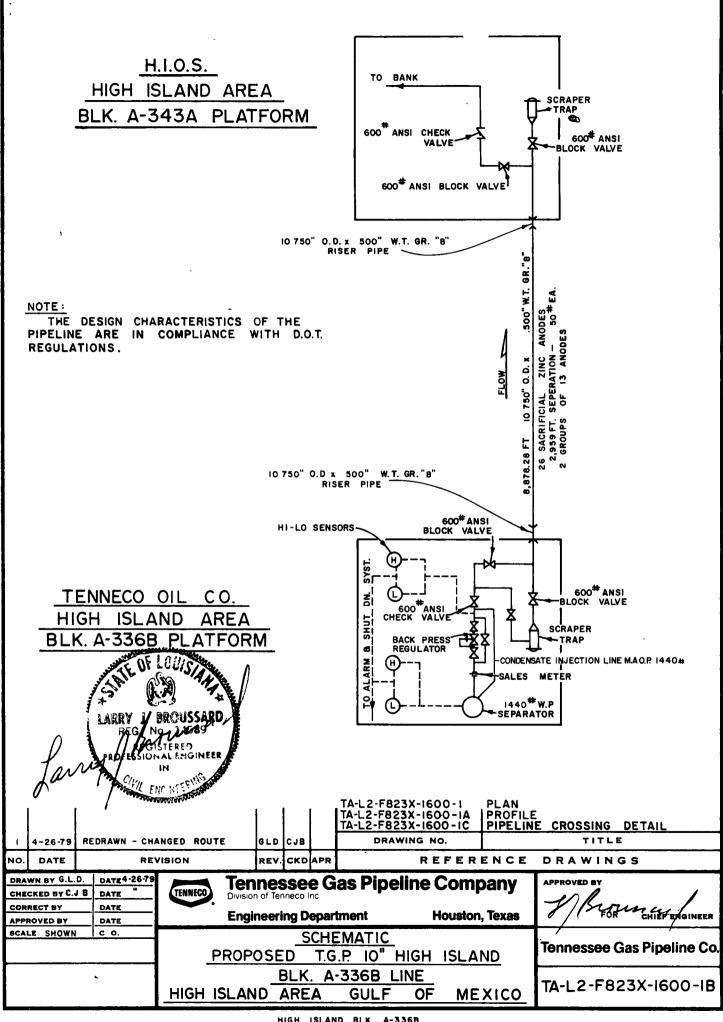
During the performance of this contract the grantee agrees as follows:

During performance under this grant, the grantee shall fully comply with paragraphs (1) through (7) of section 202 of Executive Order 11246 as revised (reprinted in 41 CFR 60-1.4(a)), which are for the purpose of preventing discrimination against persons on the basis of the race, color, religion, sex or national origin. Paragraphs (1) through (7) of section 202 of Executive Order 11246 as amended are incorporated in this grant by reference.

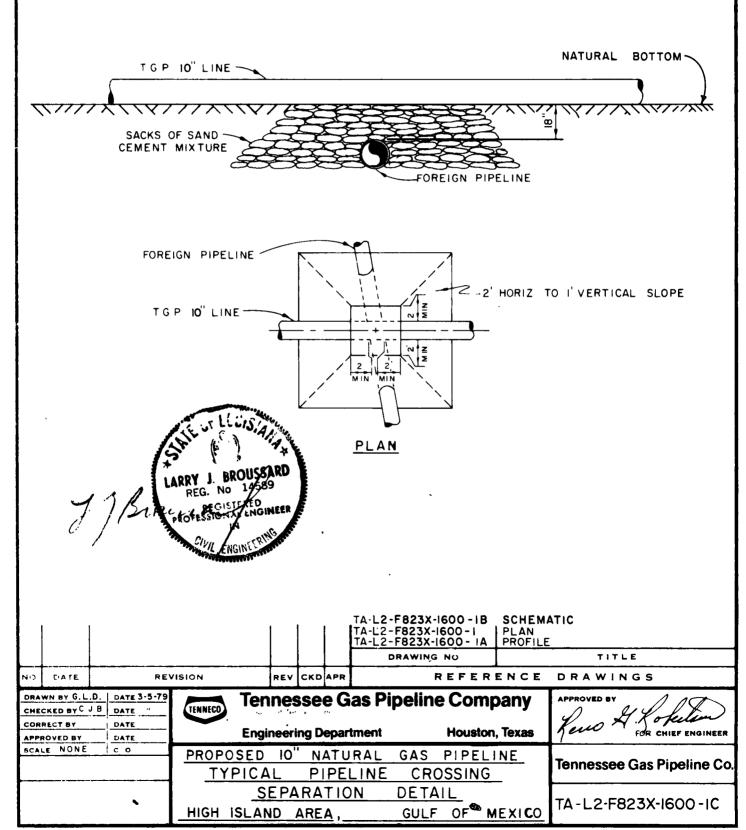
| | , ~ | |
|-------|------------------------|--|
| • | | |
| | //Signature of Grantee | |
| | //Signature of Grantee | |
| | \mathcal{O} | |
| Date: | May 11, 1979 | |







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103/49 1 Tenneso'n "B", HI A-336, G 242 4040

TO ASSTE WHIOS 36" HIP 343, G 2741

TO HIOS Plat "A", HI A-343, G 2741

PIPELINE APPLICATION CHECK LIST

(1.68mi) PIPELINE APPLICATION CHECK LIST

B378.28 (1.68149 mi) BEST AVAILABLE COP

INSTRUCTIONS: Check the blank on the left if the statement is affirmative or correct data submitted. Mark N/A (not applicable) where appropriate. Place an X in the blank if the answer is no or if the data was not submitted. All blanks marked X must be rectified to a check (or qualified) before approval can be given for the pipeline. Enter data in the blanks on the right.

| | roval | can | be given for the pipeline. Enter data in the blanks on the |
|----|-------------|-----------------|---|
| A. | Veri | fy th | e following general information: |
| | ı. | SOP | |
| | | _ a. | Do the leases involved on the P/L application appear on the current Suspension of Production (SOP) Lease List? |
| | II. | POD | |
| | | _ a. | Is the pipeline presently covered by an approved Plan of Development (POD)? (Discuss ROU&E with Doug.) If yes, go to III. If No, go to 250.34. (Requires submittal to POD/P by operator to District.) |
| / | III. | USGS | Application |
| | 7 | | The applicant is a Federal lease holder and the pipeline is to be used for such purposes as: |
| | | | 1. Moving production to a control point for gathering, treating storing, or measuring. |
| | | | 2. Delivery of production to a point of sale. |
| | | | 3. Delivery of production to a pipeline operated by a transportation company. |
| | | | 4. Moving fluids in connection with lease operations, such as for injunction purposes. |
| | | | The pipeline is within the lease boundary owned by the operator (If yes, include 30 CER 250.19(%) in approval.) |
| | | _ c. | Pipeline is within continguous lease boundaries. (If yes, include 30 CFR 250.19(b) in approval.) |
| | | | Pipeline is within non-continguous lease boundaries. (If yes, include 30 CFR 250.18(c) and 30 CFR 250.19(b) in approval.) |
| | | - | Lessee's "intent to cross" letter are received. (Walt 30 days for letters of objection. Only objections concerning interference with lease operations will be considered.) |
| | / | / _{f.} | Pursuant to Secretarial Order 2974 of April 30, 1975, check |

the following:

| 1. FWS notified |
|--|
| 2. FWS comment received |
| 3. BLM notified |
| 4. BLM comment received |
| 5. Environmental Impact Evaluations completed |
| 6. If related to new POD/P, date of POD/P approval |
| IV. BLM Application |
| a. The pipeline must be able to be subjected to common carrier provisions (i.e., no downstream production facilities or downstream pipelines which could not be subjected to common carrier provisions). |
| V. DOT Pipelines |
| a. The pipelines are shoreward of the outlet flange at the first process facility (If yes, include 49 CFR 192 for gas P/L or 49 CFR 195 for oil P/L in approval). |
| VI. DOI Pipelines |
| a. Pipelines not covered by V above. |

| • | |
|----------------|---|
| | rify that the information shown on the safety equipment schematic drawing tains the following: |
| <u>/</u> I. | The pipeline leaving the platform receiving production from the platform is equipped with high and low pressure sensors located upstream of departing check valves to directly or indirectly shut-in the well or wells on the platform. |
| <u>N/4</u> 11. | The pipeline delivering production to production facilities on the platform is equipped with an automatic fail close valve tied into the automatic and remote shut-in system. |
| VIII. | The pipeline crossing the platform which does not deliver production to the platform, but which may or may not receive production from the platform is equipped with high and low pressure sensors connected to an automatic fail close valve located in the upstream portion of the pipeline at the platform. In addition, the sensors are tied into either the platform's automatic and remote shut-in system or an independent remote shut-in system platform which does not deliver production to the platform is equipped with high and low pressure sensors connected to an automatic fail close valve located in the upstream portion of the pipeline at the platform's automatic and remote shut-in system or an independent remote shut-in system platform is also sensors and sensors are tied into either the platform's automatic and remote shut-in system or an independent remote shut-in system platform is a sensor of the pipeline at the platform. |
| IV. | The pipeline boarding the platform is equipped with a check valve. |
| ✓_v. | The pipeline leaving the platform is equipped with a check valve. |
| NA VI. | The pipeline pump is shown as well as its associated high and low pressure shut-in device. |
| VII. | If pipeline pilots are located on any process vessel, all flow restrictions (backpressure valves, chokes) downstream of pilots are indicated on the schematic. |
| <u></u> | Pressure source is drawn into the schematic with the following: |
| <u> </u> | a. Source SEPANATOR |
| | b. Maximum source pressure, psig 1440. |
| 1X. | The rated working pressures of all separators, pumps, compressors, valves, flanges, and fittings upstream of and including the boarding automatic fail close valve are shown. |
| | 100 1000 |

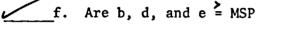
| C. | Verify | that the <u>location plat</u> depicts the following: |
|----|--------|---|
| _ | I. | Location of P/L |
| _ | _ 11. | Length of P/L |
| _ | _iII. | Size of P/L |
| ~ | IV. | Type of service |
| _ | _ v. | Direction of flow |
| D. | calcul | that the information given on the submitted data sheet is complete; and ate the MAOP $_{\rm SC}$, MAOP $_{\rm PC}$, MAOP $_{\rm P}/1$. |
| | I. Ge | neral information for calculating MAOP $_{	extsf{sc}}$, MAOP $_{	extsf{rc}}$, etc. |
| | a. | Size of P/L, inches |
| | ъ. | Weight of P/L, 1bs./ft |
| | c. | Grade of P/L ${\cal B}$ |
| | đ. | Wall thickness, inches 0.500 |
| | e. | Size of riser, inches 10.75 |
| | f. | Weight of riser, lbs./ft |
| | g. | Grade of riser .XXX B |
| | h. | Wall thickness of riser, inches 0.500 |
| | i. | Minimum WP rating of piping, fittings, valves, psig 1440 |
| | j. | Hydrostatic test pressure (HTP), psig 2/60 . Z/60 |
| | k. | Hold time, hrs. 4 8 |
| | 1. | Classification of P/L (oil or gas) |

| III | _ | DOT | Pir | e1 | ines |
|-----|---|-----|-----|-----|-------|
| | • | | | ~~~ | T1100 |

a. IP @ SMYS for submerged pipeline =
$$\frac{2st}{D} = \frac{(2)(35000)(.5)}{10.75} = 3256$$

c. IP @ SMYS for riser =
$$\frac{2st}{D} = \frac{(2)(35000)(.5)}{10.75}$$

| e. | See | Ιi | above | 1440 | (MAOP _{pfv}) |
|----|-----|----|-------|------|------------------------|
|----|-----|----|-------|------|------------------------|



NOTE: If not, a departure is necessary requiring redundant safety equipment.

A written request for a departure has been received and the redundant safety equipment is satisfactory.

g. Limit of Testing

Is 1.25 MSP = HTP = .95 (IP @ SMYS for smaller IP of a and c above)

2. For gas P/L riser component:

Is 1.50 MSP = HTP of riser = .95 (IP @ SMYS of c above)

___3. For gas P/L submerged component:

Is 1.25 MSP = HTP of submerged component = .95 (IP @ SMYS of a above)

NOTE: If not, inquire of the operator as to what he considers a limit of testing as a percentage of IP @ SMYS.

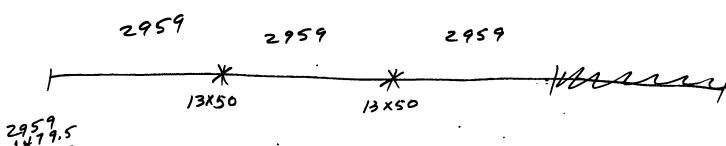
| · h. | MAOP _{p/1} based on HTP | BEST AVAIL | | |
|-------|---|-----------------------|--|--|
| | 1. For oil P/L HTP/1.25 = | | | |
| | 2. For gas P/L riser component HTP/1.5 = 14 | 40 | | |
| | 3. For gas P/L submerged component HTP/1.25 = of submerged component | | | |
| MA i. | For oil P/L Is HTP hold time = 24 hours | | | |
| | For gas P/L Is HTP hold time = 8 hours | | | |
| j. | j. $MAOP_{p/1}$ = the smallest of b, d, e, and h above | | | |
| | 1440 | MAOP _{p/1}) | | |
| k. | Test pressure ANSI & API carbon steel RTJ & RF flange | s and valves | | |
| | 2/60 (From table 3.1 page 31 API RP | 14E) | | |
| 1. | Is k > HTP 2/60 > 2/75 | | | |

NOTE: If not, add statement in approval letter to insure valves and flanges are not subjected to test pressure.

Pipeline Receiving Production (Installed Prior to July 31, 1977) IV. Submerged Component Riser Size, inches Grade b. Wall thickness, inches c. d. Minimum working pressu re of valves and flanges (MAOPpfv) Date of last hydrostatic test f. HTP, psig q. Hold time, hours h. MAOP based on HTP HTP/1.25 i. IP@SMYS for submerged P/L &ST/D (.72 X IP@SMYS) for submerged P/L (MAOPsc) IP@SMYS for riser 2ST/D 1. (.60 X IP@SMYS) for (MAOPrc) riser If the receiving P/L is a DOT gas P/L and has not been tested since July 1, 1971, then what is the HAOP to which the segment was subjected during the 5 years prior to July 1, 1976? MAOP of receiving P/L $_$ MAOP of proposed P/L $_$ MAOP of proposed P/L

1

| E. | Verify that the information given on the submitted data sheet is complete; and calculate the life expectancy of the pipelines corrosion protection ($\text{LE}_{p/1}$) | | | | |
|----|--|--|--|--|--|
| | I. Gen | eral Information for Calculating LE _{p/1} | | | |
| | | Type of corrosion protection (platform anodes, P/L anodes, or rectifiers) | | | |
| | Ab. | If platform anodes are used: | | | |
| | | 1. Type of anode | | | |
| | | 2. Weight of unit anode, 1bs. | | | |
| | <u></u> | If pipeline anodes are used: | | | |
| | | 1. Type of anode $\frac{2/NC}{}$. 26 zere anotes. 2. Spacing interval, ft. $\frac{2959}{}$ separation $\frac{2}{50}$ Hea. $\frac{2}{3}$ groupe $\frac{1}{3}$ ea. | | | |
| | | 2. Spacing interval, ft. 2959 separation -50#ea 2 groupe 13 ea. | | | |
| | | 3. Weight of unit anode, 1bs. 50 | | | |
| | II. Cal | culated Life Expectancy of Corrosion Protection | | | |
| • | <i>√</i> /A a. | If platform anodes are used, are they considered adequate | | | |
| | ✓b. | If pipeline anodes are used: | | | |
| | $LE_{p/1} = 3.82 \times 10^4 \times W^{O}/DIR? = \frac{3.82 \times 10^4 \times 13 \times 5^{O}}{10.75 \times 24 \times 4438.5} = 20.01$ W^{O} = weight of one anode, pounds = | | | | |
| | | D = outside diameter of pipe, inches | | | |
| | | | | | |
| | | I = interval = length of pipe, feet : total number of anodes | | | |
| | | R = consumption rate, lbs./amp-yr. | | | |
| | c. | Is our calculated $LE_{p/1} \stackrel{>}{=} 20$ years | | | |
| | | | | | |
| | | | | | |
| | | | | | |



| | | | given on the submitted day of the pipeline $(SP_p/1)$ | ta sheet is complete; and | | |
|----|-----|---|---|---------------------------|--|--|
| I. | Gen | neral Information pertaining to SGp/1 22mil epoly or " Description of pipelines protective coating Contraction of Size and Size | | | | |
| | a. | Description of pipeli | nes protective coating $ ot\! \angle$ | and Tac enamel /32 | | |
| | b. | Description of risers | protective coating | | | |
| • | c. | Description of pre-co | ncrete coating | | | |
| | d. | Density of concrete, | lbs./cu. ft. | | | |
| | e. | Thickness of concrete, inches Thickness of asphalt/somastic Gravity or density of products | | | | |
| | f. | | | | | |
| | g. | | | | | |
| ŧ | | For gas 16 | (air = 1.0) | | | |
| | | For oil/condensate | O API, | _ (water = 1.0) | | |
| | h. | Given SG _{n/1} | 36 | | | |

Expoxy-coated pipelines:

$$SG_{p/1} = 2.865 \text{ W/D}^2 = 1.357/$$

W = weight of bare pipe, lbs./ft.

D = diameter of pipe, inches

For weighted pipelines:

$$SG_{p/1} = \frac{d_c}{d} + \frac{k_2}{(T-k_1)^2} \qquad \left(\frac{W+P}{k_3} - \frac{d_c}{d}\right)$$

d_c = density of concrete, lbs./ft.³

d = density of fluid in which pipeline is submerged, lbs./ft.³

 k_1 , k_2 , k_3 = coefficients from tables

T = thickness of concrete coating, inches

W = weight of bare pipe, lbs./ft.

P = weight of double enamel coat and felt wrap, or weight of asphaltmastic coating, lbs./ft.

Is our calculated SG ≅ operator's given SG

1.3571 4 1.36

NOTE: These values should be approximately the same. If not, resolve. If the SG is close to a value of 1, the pipeline is unacceptable and must be weighted with concrete or anchored securely to the bottom.

- Verify the following general information:
 - Water Depth, ft. 240 (Max) 240 (Min)
 Burial depth, ft. 400
 - Burial depth, ft.
 - III. Maximum Operating Pressure (MOP) 1440 (MIN) 500
 - IV. Capacity 1940 28 MMCF/2